CONSTRUCTION NEWS

S plement to ENGINEERING NEWS. New York, June 15, 1905.

CONTENTS.

CON RUCTION NEWS:
ans and Specifications on File 225
t of Contracts Pending 225
ilways 226
ctric Railways 226
ght and Power Plants 227
idges 227
ildings 228
ter Supply and Irrigation 229
werage 229
rbage Disposal 229
reets and Roads 230
anufacturing Plants 230
iscellaneous Contracts 231
S. Possessions and Cuba 231
ntract Prices 232
exico 232
oreign Contracts and Export News 233
RE DERS' WANTS 231
IN USTRIAL NOTES 233
PR POSALS 234

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
June				
*20	Sewer	Waterbury, Conn.	P & S	6- 8
*28	Irrigation canals	Billings, Mont.	P & S	5- 4
*30	Pumping machinery, etc.	Toledo, O.	S	6- 1
*20	Sewers	Torrington, Conn.	S. & B. S.	6-15
21	Bridge	No. Adams, Mass.	P. & S	6-15
*23	Pipe and specials	Winnipeg, Man.	S	6-15
July				
*1	Municipal building	Washington, D. C.	S	6- 1
*1	Paving	Helena, Ark.	P. & S	6-15
*3	Reservoir	Winnipeg, Man.	S	6- 1
*7	Conduit	Chicago, Ill.	P. & S	6-15
15	Chimney	Pensacola, Fla.	S	6-15
Aug.				
26	Coaling plant	Philippines	S	5- 4
Sept.				
1	Steel manufacture	New S. Wales	S	3-23

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

June 16. Generating set, Grand Haven, Mich.....June 1
June 19. Lighting, Boston, Mass. ....June 8
June 19. Electric light plant, Youngstown, O.....June 8
Advertised, Eng. News, June 8-15.
June 19. Lighting, Atlantic City, N. J. ....June 15
June 19. Lighting system, Sheridan, Wyo.........June 15
June 20. Electric system, Portland, Me.............June 15
June 22. Electric light plant, Alma, Neb........June 1
June 26. Electric plant, Highland, N. J. ....June 8
Advertised, Eng. News, June 8-15.

BRIDGES.

June 16. Bridge, Nevada City, Cal. ....June 8
June 17. Bridge, Racine, Wis.........................June 15
June 17. Bridge, etc., Chesley, Ont..................May 18
June 19. Bridge, Seabright, N. J. ....June 15
June 19. Bridge, Jersey City, N. J. ....June 15
June 19. Bridge, Medina, O. ....June 8
June 19. Bridges, Fredericton, N. B. ....June 15
June 20. Bridges, Columbia City, Ind. ....June 15
June 20. Bridge, Roblin, Ont. ....June 15
June 20. Bridge, Cadillac, Mich.......................May 18
Advertised, Eng. News, May 18 to June 8.
June 20. Bridge, O'Neill, Neb. ....June 1
June 20. Bridges, Fargo, N. Dak. ....June 8
June 21. Bridge, No. Adams, Mass. ....June 15
Advertised, Eng. News, June 15.
June 22. Drawbridge, Paterson, N. J. ....June 15
June 23. Bridge, etc., Brookholm, Ont. ....June 15
June 23. Bridge, Reading, Pa. ....June 15
Advertised, Eng. News, June 15.
June 24. Culverts and abutments, Cleveland, O...June 15
June 24. Bridge, iron, Moline, Ill. ....June 8
June 24. Bridge, steel, Ada, Mich. ....June 8
June 26. Bridge, Muir, Mich. ....June 15
June 26. Concrete arch, Thamesford, Ont. ....June 15
June 27. Bridges, Cornwall Centre, Ont. ....June 15
June 28. Enlarging draw, Newport, R. I. ....June 1
Advertised, Eng. News, June 1 to 29.
July 3. Bridge, iron, Natchitoches, La. ....June 8
July 5. Wagon bridges, Vale, Ore. ....June 1
July 5. Bridge, Tillamook, Ore.........................May 25
July 5. Bridges, Plymouth, Ind. ....June 15
July 5. Bridge, Fossil, Ore. ....June 15
July 6. Bridge, Redding, Cal...........................May 25
July 6. Bridges, Lawrenceville, Ga....................June 1
July 8. Bridge, Portland, Me. ....June 15
Advertised, Eng. News, June 15 to July 13.
July 8. Bridges, Terre Haute, Ind. ....June 15
July 11. Bridge, steel, Castlewood, S. Dak. ......June 8

BUILDINGS.

June 16. Buildings, Oswego, N. Y. ....June 8
Advertised, Eng. News, June 8.
June 16. Ordnance barracks, Ft. Hancock, N. J..June 1
June 17. Buildings, Ft. Lincoln, N. Dak. ....June 8
June 19. City-hall, Fresno, Cal. ....June 8
June 19. Post-office, Atlantic, Ia......................May 18
June 19. Dwelling, Baltimore, Md......................May 25
Advertised, Eng. News, May 25.
June 19. Tile floor, Belleville, Ill. ....June 15
June 20. School, Argyle, Minn. ....June 15
June 20. Barracks, Portland, Me. ....June 15
June 20. Post-office, Colorado Springs, Colo.......May 18
June 20. Officers' quarters, Ft. Monroe, Va........June 1
Avertised, Eng. News, June 1 to 29.
June 21. Post-office, Winston, N. C..................May 18
Advertised, Eng. News, May 18 and 25.
June 21. Building, Baltimore, Md. ....June 15
June 21. School, Rhinelander, Minn. ....June 15
June 21. Orphans' Home, Wilmar, Minn. ....June 15
June 22. Building, New York, N. Y....................June 1
June 22. School, Jersey City, N. J. ....June 8
June 23. Post-office, Vancouver, B. C. ....June 8
June 24. Officers' quarters, Washington, D. C. ....June 15
Advertised, Eng. News, June 15.
June 24. Church, Huntington, Ind. ....June 15
June 25. Buildings (mfg. plants), Acworth, Ga. ...June 15
June 26. Church, Perham, Minn. ....June 15
June 26. Building, Buffalo, N. Y. ....June 8
June 26. Post-office, Niagara Falls, N. Y............May 25
Advertised, Eng. News, May 25 and June 1.
June 27. School, Montclair, N. J. ....June 8
Advertised, Eng. News, June 8.
June 27. Heating apparatus, Grand Forks, N. Dak. June 8
June 27. Heating and ventilating, Los Angeles, Cal. June 15
June 28. Heating, plumbing, etc., Binghamton, N.Y. June 8
Advertised, Eng. News, June 8 to 29.
June 28. Heating plant, Shelbyville, Ind. ....June 8
June 28. Post-office, Westchester, Pa.................May 25
Advertised, Eng. News, May 25 and June 1.
June 29. Hospital, Washington, D. C..................June 1
Avertised, Eng. News, June 1 to 29.
June 29. Building, Washington, D. C. ....June 8
Advertised, Eng. News, June 8 to July 6.
June 29. Buildings, Indianapolis, Ind. ....June 15
July 1. Hall, Atlantic City, N. J. ....June 8
July 1. Municipal building, Washington, D. C...May 25
Advertised, Eng. News, May 25 to July 7.
July 1. Court-house, Wallace, Idaho..................May 18
July 3. Court-house and jail, Leesville, La.......May 11
July 6. Capitol building, Montgomery Ala.......June 1
July 11. Hospital, Goshen, Ind. ....June 8
July 11. Wiring, Lincoln, Neb. ....June 15
July 12. Heating apparatus, Deadwood, S. Dak....June 15
July 15. Building, Pensacola, Fla. ....June 15
July 18. Buildings, Wahpeton, N. Dak. ....June 15
July 20. Custom-house, San Francisco, Cal.........June 8
Advertised, Eng. News, June 1 and 8.
July 22. Hospital, New Orleans, La. ....June 15
Advertised, Eng. News, June 15 and 22.

WATER SUPPLY AND IRRIGATION.

June 19. Pipe, specials, Winnipeg, Man. ....June 8
Advertised, Eng. News, June 8 and 15.
June 19. Pipe, hydrants, etc., Wheaton, Minn......June 8
June 19. Tank, mains, Lamberton, Minn..........June 8
June 20. Pumping engines, Chicago, Ill.............May 25
Advertised, Eng. News, May 25 to June 22.
June 20. Filtration system, Bellaire, O. ....June 15
June 20. Engines, generators, Cleveland, O. ....June 15
June 20. Pump, pipe, etc., Vidalia, La. ....June 15
June 22. Water-works, Alma, Neb.....................May 25
June 22. Water and light plant, Cookeville, Tenn. June 8
Advertised, Eng. News, June 8.
June 22. Water-works, Manistique, Mich...........June 8
June 22. Water-works, Liberty, Mo. ....June 15
June 24. Reservoir (Cuba), Washington, D. C.....May 18
June 26. Dismantling standpipe, Sherman, Tex....June 8
June 26. Pumps, Soldiers' Home, Cal. ....June 15
June 26. Tank and tower, Meaford, Ont. ....June 15
June 28. Irrigation canal, Billings, Mont..........May 4
Advertised, Eng. News, May 4 to June 15.
June 28. Pumping station, etc., Billings, Mont....May 4
Advertised, Eng. News, May 4 to June 15.
June 30. Pumping machinery, etc., Toledo, O....June 1
Advertised, Eng. News, June 1 to 22.
June 30. Water-works, Mt. Olive, Ill. ....June 15
Advertised, Eng. News, June 15.
June 30. Pipe and specials, Kansas City, Mo.......June 15
Advertised, Eng. News, June 15 to July 6.
July 3. Reservoir, Winnipeg, Man...................June 1
Advertised, Eng. News, June 1 to 22.
July 17. Water-works, Bishopville, S. C..........June 8

SEWERAGE.

June 16. Sewers, Bronxville, N. Y....................June 8
Advertised, Eng. News, June 8 and 15.
June 16. Sewer system, Vinton, Ia....................June 8
June 16. Sewer, Le Sueur, Minn.........................June 8
June 17. Sewerage system, University Place, Neb. June 8
June 17. Sewers, Oconto, Wis...........................May 25
June 20. Sewer, Waterbury, Conn.....................May 25
Advertised, Eng. News, May 25 to June 15.
June 20. Sewers, New York, N. Y. ....June 15
June 20. Sewer, Chicago, Ill. ....June 15
June 20. Sewers, Torrington, Conn. ....June 15
Advertised, Eng. News, June 15.
June 21. Sewers, etc., Greensburg, Ind.............June 1
June 22. Sewers, Manistique, Mich....................June 8
June 22. Sewers, Janesville, Wis......................June 1
June 22. Sewer, Galveston, Tex.........................June 1
Advertised, Eng. News, June 1.
June 22. Sewers, Scotia, N. Y. ....June 15
Advertised, Eng. News, June 15.
June 22. Sewer, Waco, Tex. ....June 15
June 23. Sewer, Ft. Walla Walla, Wash. ....June 15
June 24. Sewers, Seattle, Wash. ....June 15
June 24. Sewer, etc., Ravenna, O. ....June 15
Advertised, Eng. News, June 15 and 22.
June 24. Sewer and water system, Norfolk, Va. ....June 15
Advertised, Eng. News, June 15 and 22.
June 26. Sewer system, London, O. ....June 15
Advertised, Eng. News, June 15 and 22.
June 26. Sanitary sewer, London, O...................June 8
June 27. Sewer pipe, etc., Nat'l Military Home, Kan. June 8
June 27. Sewers, Cleveland Heights, O.............June 8
June 27. Sewers, etc., Greensburg, Ind. ....June 8
Advertised, Eng. News, June 8 and 15.
June 27. ewer, Binghamton, N. Y. ....June 15
Advertised, Eng. News, June 15 and 22.
June 28. Sewer system, Quitman, Ga. ....June 15
Advertised, Eng. News, June 15 and 22.
July 1. Sewer, Bridgeport, Conn. ....June 15
Advertised, Eng. News, June 15 and 22.
July 1. Sewer system, St. Charles, Mo. ....June 15
July 1. Sewers, Morganton, N. C...................June 1
July 3. Sewer system, Gettysburg, Pa. ....June 15
Advertised, Eng. News, June 15 to July 6.
July 4. Lateral sewers, Brainerd, Minn...........June 15
July 7. Sewers, Abilene, Kan. ....June 15
Advertised, Eng. News, June 15.
July 21. Sewer, Utica, N. Y. ....June 15
Advertised, Eng. News, June 15.

STREETS AND ROADS.

June 16. Road, Cincinnati, O...........................May 25
June 16. Asphalt plant, New Orleans, La..........May 11
Advertised, Eng. News, May 11 to June 22.
June 16. Grading, Lisbon, O............................June 1
June 16. Jail, Tawson, Md...............................June 1
Advertised, Eng. News, June 1 to 22.
June 16. Sidewalks, Terrace Park, O.................June 1
June 17. Macadamizing, etc., La Crosse, Wis....June 1
June 17. Sidewalks, cement, Grand Junction, Colo..June 8
June 19. Paving, brick, Marinette, Wis. ....June 8
June 19. Macadamizing, Morristown, N. J..........June 1
June 19. Asphalt plant, New Orleans, La..........May 18
June 19. Roads and walks, Portland, Me. ....June 15
June 19. Paving, granite, Cincinnati, O. ....June 15
June 19. Cement curb, Youngstown, O. ....June 15
June 19. Paving, Canton, O. ....June 15
June 19. Cement walks, Newberry, Mich. ....June 15
June 19. Road repair, Jersey City, N. J. ....June 15
June 20. Macadam road, Washington, D. C. ....June 15
June 20. Paving, Omaha, Neb. ....June 15
June 20. Paving, asphalt, New York, N. Y. ....June 15
June 20. Paving, Bedford, Ind. ....June 15
June 20. Paving, Henderson, Ky. ....June 15
June 20. Paving, etc., Bellevue, Pa. ....June 15
June 20. Gravel, brick, etc., Norfolk, Va. ....June 15
June 20. Paving, St. Louis, Mo. ....June 15
June 20. Grading, etc., Cleveland, O. ....June 15
June 20. Roads, Napoleon, O.............................June 8
June 21. Paving, Central City, W. Va.................June 8
June 21. Paving, West Hoboken, N. J. ....June 15
June 22. Paving, E. Liverpool, O. ....June 15
June 22. Road, Salem, N. H. ....June 15
June 23. Road, Cincinnati, O.............................June 8
June 23. Roads and walks, Ft. Totten, N. Y. ....June 15
Advertised, Eng. News, June 15 and 22.
June 24. Concrete walks, Seattle, Wash. ....June 15
June 24. Paving brick, Washington, D. C..........June 1
June 26. Paving, etc., Cincinnati, O...................June 8
June 26. Paving, Newark, N. J. ....June 15
Advertised, Eng. News, June 15.
June 26. Paving and curbing, Wellsville, N. Y.....June 15
Advertised, Eng. News, June 15 and 22.
June 27. Road, Ellicott City, Md. ....June 15
June 27. Road, Boise, Idaho...............................June 8
June 28. Paving, Cincinnati, O...........................June 8
June 28. Paving, Portsmouth, O. ....June 15
July 1. Paving, Helena, Ark. ....June 15
Advertised, Eng. News, June 15 to July 6.
July 1. Paving, brick, Cleveland, O....................June 8
July 5. Paving, Emlenton, Pa. ....June 15
Advertised, Eng. News, June 15.
July 5. Paving, asphalt, Cincinnati, O. ....June 15

MISCELLANEOUS CONTRACTS.

June 16. Cement, piles, New York, N. Y.............June 8
June 16. Dredging, Seattle, Wash......................June 1
June 19. Dredging Norfolk, Va..........................May 25
Advertised, Eng. News, May 25 and June 1.
June 19. Dredging, Wilmington, Del....................May 25
Advertised, Eng. News, May 25 to June 22.
June 19. Breakwater, Cleveland, O.....................May 25
Advertised, Eng. News, May 25 to June 22.
June 19. Fire alarm system, Ukiah, Cal..............June 8
June 19. Sea wall, Boston, Mass.........................June 8
June 19. Fire hose, Albany, N. Y. ....June 15
June 19. Pier work, New York, N. Y. ....June 15
June 20. Levee work, Vicksburg, Miss. ....June 15
June 20. Levee work, Vicksburg, Miss. ....June 15
June 20. Levee, Walnut Hill, Ark.........................June 8
June 20. Dredging, Detroit, Mich.........................May 25
Advertised, Eng. News, May 25 to June 22.
June 20. Dredging, Wilmington, Del....................May 25
Advertised, Eng. News, May 25 to June 22.
June 20. Dredging, Baltimore, Md.......................May 25
Advertised, Eng. News, May 25 to June 22.
June 20. Searchlight outfits, Washington, D. C....May 18
Advertised, Eng. News, May 18 to June 15.
June 20. Breakwater, Cleveland, O......................June 1
Advertised, Eng. News, June 1 to 22.
June 20. Machine tools, Washington, D. C.........June 1
June 20. Lamps, planers, etc., Washington, D. C..June 1
June 20. Sea wall, Fort Mifflin, Pa......................June 1
June 20. Rock work, Portland, Ore......................June 1
June 20. Electric elevator, Washington, D. C.....June 1
June 20. Stone, brush, poles, etc, Vicksburg, Miss. June 1
Advertised, Eng. News, June 1 to 22.
June 21. Miscellaneous articles, Tompkinsville, N.Y. May 25
Advertised, Eng. News, May 25 to June 22.
June 21. Dredging, Wilmington, Del.....................May 25
Advertised, Eng. News, May 25 to June 22.
June 21. Dredging, Baltimore, Md........................May 25
Advertised, Eng. News, May 25 to June 22.
June 21. Levee work, West Memphis, Ark..........May 25
June 21. Perforating machines, Washington, D. C. June 15
June 22. Fire hose, engines, etc., New York, N. Y. June 15
June 22. Seawall, New York, N. Y......................May 25
Advertised, Eng. News, May 25 to June 22.
June 22. Dredging plant, Detroit, Mich..............May 25
Advertised, Eng. News, May 25 to June 22.
June 24. Freight elevator, Charleston, S. C.......June 1
June 26. Dredging, Wilmington, Del....................June 1
Advertised, Eng. News, June 1 to 29.
June 26. Dredging, Boston, Mass........................June 1
Advertised, Eng. News, June 1 to 29.
June 26. Telephone system, Belle Fourche, S. Dak. June 1
Advertised, Eng. News, June 1 to 29.
June 26. Dredging, Charleston, S. C...................June 1
Advertised, Eng. News, June 1 to 29.
June 26. Dike and riprap, Duluth, Minn...............June 1
Advertised, Eng. News, June 1 to 29.
June 26. Drainage ditches, Webster City, Ia.....June 8
June 27. Machine tools, Washington, D. C..........June 8
June 27. Dredging, Duluth, Minn.........................June 1
Advertised, Eng. News, June 1 to 29.
June 27. Motors, lathes, etc., Washington, D. C....June 15
June 27. Spikes, cement, etc., Washington, D. C..June 15
June 28. Jetty work, Galveston, Tex.....................June 1
Advertised, Eng. News, June 1 to 29.
June 29. Sand bins, Washington, D. C. ....June 15
June 29. Ditch work, Prophetstown, Ill. ....June 15
June 30. Dredging, Portland, Me..........................June 1
Advertised, Eng. News, June 1 to 29.
June 30. Dredging, Savannah, Ga.........................June 1
Advertised, Eng. News, June 1 to 29.
June 30. Tug boat, Washington, D. C..................June 8
June 30. Portland cement, Cincinnati, O.............June 8
July 1. Dredging, etc., Jacksonville, Fla..........June 8
Advertised, Eng. News, June 8 to 29.
July 1. Dredging, Montgomery, Ala....................June 8
Advertised, Eng. News, June 8 to 29.
July 1. Power dredge, Chicago, Ill......................June 1
Advertised, Eng. News, June 1 to 22.
July 1. Underground cables, Washington, D. C...June 15
July 1. Dredging, Washington, D. C. ....June 15
July 1. Street railway, Chicago, Ill. ....Apr 13
Advertised, Eng. News, April 13 to May 11.
July 3. Dam, cribs, etc., Mobile, Ala....................June 8
Advertised, Eng. News, June 8 to 29.
July 3. Dredging, etc., Norfolk, Va......................June 8
Advertised, Eng. News, June 8 and 15.
July 3. Bear trap gates, Pittsburg, Pa.................June 8
Advertised, Eng. News, June 8 to 29.
July 5. Dredging, Baltimore, Md........................June 8
Advertised, Eng. News, June 8 to 29.
No date. Railway grading, Baltimore, Md. ....June 15
Advertised, Eng. News, June 15 to July 6.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC & BIRMINGHAM.—As noted on June 1, the CALLAHAN CONSTRUCTION Co., of Knoxville, Tenn., has contract for 20-mile section on this line, between Talbottom, Ga., and Warm Springs. Announcement is made by the contractors that "we have 20 miles of heavy rock and earth work in central Georgia to be built for the Atlantic & Birmingham Co., part of which we will let to responsible contractors with good outfits. The material is dry and apparently the best we have had in years. Profile and work can be seen by applying to the Callahan Construction Co.'s General Superintendent, E. R. Keller, Warm Springs Station, or Bullochville, P. O., Ga., or to our main office at Knoxville, Tenn."

ARKANSAS SOUTHERN.—We are informed that company probably will extend its line to Sabine Pass, Tex., via Lake Charles, La., 211 miles. Capt. Henry Rohner has been appointed Ch. Engr., at Ruston, La.

APPOMATTOX & CHARLOTTE.—Surveys are not yet run for this proposed line from Drakes Branch to Appomattox, Va., 20 miles. B. P. Eggleston, Charlotte Court House, Va., is Pres. Noted on May 18.

ALABAMA, TENNESSEE & MISSOURI.—I. H. Dungan, Memphis, Tenn., a promoter of this railway, is reported to have stated that plans are being perfected for its construction. The road will begin at Humboldt, Tenn., running west to Newbern or Dyersburg, Tenn., and thence to Hickman, Ky., or New Madrid, Mo., at either of which places western connections can be had. East from Humboldt the line will run to Lexington, Tenn., making a connection at some convenient point with the Tennessee River.

BRIMSTONE RAILROAD & CANAL CO.—It is reported that this company is incorporated in Louisiana to build a railroad from Brimstone, on the Louisiana Western, north to the Sulphur mine, and thence northwest to the boundry line between Louisiana and Texas or to some intermediate point. The company is also empowered to build or acquire canals from Brimstone or Sulphur mine to the Calcasieu or Sabine Rivers, or both. Capital stock, $10,000. Incorporators: J. Toniette, John L. Henning, S. W. Maxwell, Hago Spitzer and Samuel Sweetey, all of whom are connected with the Union Sulphur Co.

BIRMINGHAM & LINEVILLE.—Contracts for completing this line into Lineville, Ala., have been awarded as follows: Grading, J. M. MEMIER, of Tennessee; for building trestles, J. H. and W. L. WINN, Dadeville, Ala.; for building depot, JNO. S. BRUCE, of Lineville; for cross ties, W. A. STEED, of Lineville.

BELLINGHAM BAY & BRITISH COLUMBIA.—Bids have been called for clearing right-of-way from Glacier, Wash., eastward, for seven miles. J. J. Donovan, Bellingham, Wash., is Gen. Supt.

CHICAGO & ALTON.—Construction will begin soon on extension from point near Springfield to Murrayville, Ill., 35 miles. Final surveys have been run. E. H. Kimball, Chicago, is Ch. Engr.

CHICAGO & RIVER FOREST.—Incorporated in Illinois to build a railroad from Oak Park, in Cook County, to a point in Dupage County, near Wheaton, about 15 miles. F. W. McLean, G. W. Bryson, W. K. Kenley, E. T. Ross and E. J. Carter, of Chicago, are reported to be interested.

CLARK & PIKE COUNTY.—Company has been chartered in Arkansas, with $56,000 capital, to build a 14-mile line from Gurdon to Hollywood. The directors are: William Grayson, N. W. McLeod, of St. Louis, and C. C. Jackson, C. G. Carpenter and M. J. Hale, of Clark County.

CHICAGO, MILWAUKEE & ST. PAUL.—The grading contract on the new 35-mile line from Armour to Plankinton, S. Dak., has been awarded to McINTOSH BROS. of Milwaukee. This strip is to be a link in the new westward extensions of the Milwaukee road, work on which has commenced at a number of points.

CALIFORNIA.—Hugh T. Richards, Engr., who has a franchise to build a steam railway along certain portions of streets of San Diego, Cal., has filed plans in that city. Work will begin this month.

CHICAGO & PACIFIC.—Papers recently filed at Casper, Wyo., show that the route surveyed for the proposed Chicago & Pacific runs from Casper to Alcova and on up into the Sweetwater country for a distance of 45 miles, with a branch line from Alcova up the Platte River to the site of the Pathfinder dam. The Colorado & Southern Ry. is said to be interested in this project. The survey was run years ago through to a connection with the Utah & Northern near Brigham City, Utah.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—W. J. OLIVER, of Knoxville, Tenn., has been awarded a contract for excavating work on Cairo division.

CAPE BRETON RY., LTD.—We are informed that government has granted subsidies for extension from St. Peters to Louisburg, N. S. No construction has been begun or definitely planned. The new line will be 65 miles long. M. E. Evans, 22 Pine St., New York, is Pres., and Jay Downer, same address, is Ch. Engr. G. E. Johnson, St. Peters, C. B., Canada, is Gen. Mgr. See issue of May 4.

CHEHALIS COUNTY TIMBER & LOGGING CO.—This company, according to report from Tacoma, Wash., will incorporate to build a railroad to Chehalis River, in Washington.

CHATTAHOOCHEE VALLEY RY.—This railway will be built from West Point, Ga., to Carrollton, 60 miles. Capital is $100,000. E. F. Lanier, J. C. Lanier, J. C. McKemie, L. S. Turner, N. J. Atkinson, E. J. Collins, Phil. Lanier, Zach. Hagedorn, J. S. Barker, L. Lanier and R. C. Freeman, all of West Point, are the promoters.

ERIE & JERSEY.—This company has been incorporated in New York, with $600,000 capital. The new company's directors are all officials or directors of the Erie Railroad. The proposed new line will be about 40 miles long, and will extend from Highland Mills, on the Newburg branch of the Erie, to Guymord, on the main line west of Middletown. It will be built on one of three routes, already surveyed, to the north of the present main line.

FARMVILLE & POWHATAN.—The Farmville & Powhatan Railroad, a narrow-gage line running from Farmville to Bermuda Hundred, about 80 miles, was purchased on June 7 by William M. Habliston, Pres. of the National Bank of Virginia, Richmond, and others, for $125,000. G. M. Wilson, Richmond, is Secy. and Treas. of the F. & P. Ry.

GREENFIELD & SOUTHASTERN.—Incorporated in Arkansas, with a capital of $50,000, to build a railroad from Greenfield, in Poinsett County, southeast to Marked Tree, a distance of about 20 miles. The directors are: W. H. Howe, of Greenfield; S. E. Howe, of Logansport, Ind., and J. J. Mardic, of Harrisburg.

GRAND TRUNK PACIFIC.—The first report of the Canadian National Transcontinental Railway Commissioners, who have charge of the interests of the government in the building of the eastern section of the Grand Trunk Pacific, has bene presented to Parliament at Ottawa, Ont. The chief engineer of the commission finds that the original route surveyed and proposed by the Grand Trunk engineers was too far south and that it will be advantageous to select a route farther north. See June 1.

HOMAN & SOUTHERN.—A company has been incorporated in Arkansas to build a railroad from Homan, Miller County, to Hervey, ten miles. Capital stock, $25,000. Directors: Charles B. Kelley, Homan; Joseph Volkmer, Newport; H. G. McBurney, Homan; H. G. Tarvin, Homan; Joseph M. Stayton, Newport.

ILLINOIS, IOWA & MINNESOTA RY.—This road is still in the construction stage, but is operating its line from Kirkland through to Joliet, Ill. The line will be completed from Rockford to Momence and beyond in about 90 days, and as soon as the entire line is completed it will be taken over by the railway company from the construction company.

INDIANA.—T. H. C. Vance, of Louisville, Ky., is interested in plan to build a railway from Aurora to Jeffersonville, Ind., about 100 miles. Estimated cost, $2,500,000. This road revive the plans of the old Louisville, Cincinnati & Dayton R. R.

INDIANA.—THE MARION COUNTY CONSTRUCTION CO. has been awarded contract for concrete work, grading and embankment in connection with proposed grade work in Indianapolis. Fully noted on May 11.

JACKSON, YAZOO CITY & MEMPHIS.—This company has applied for a charter in Mississippi to build a railroad from Jackson, Miss., via Yazoo City and Woodburn, Miss., to Memphis, Tenn. Incorporators: I. N. Barnwell, E. S. Crane, Ben Exum and others, of Yazoo City. The line would be about 230 miles long and would parallel the Yazoo & Mississippi Valley for a portion of the way.

JACKSONVILLE, SUBURBAN & SEASHORE.—A charter has been granted to this company in Florida to construct and operate with either steam or electricity as motive power, a railroad between Jacksonville and Pablo Beach, a distance of 20 miles. John D. Lawrence, Pres.; Wm. A. Riddle, Secy. and Tres., and John D. Lawrence, William A. Riddle, H. M. Bidez, William T. Simmons, A. B. Humphreys, D. P. Myerson, Jr., and Wm. S. Ferrell, are directors.

KANSAS CITY, MEXICO & ORIENT.—Contract has been let to JOHN P. HUGHES, of Fort Worth, Tex., for building an extension between Sweetwater and San Angelo, Tex., 75 miles.

KANSAS CITY, TULSA & SOUTHWESTERN.—The directors of the Kansas City, Tulsa and Southwestern Railroad Co. have filed a statement increasing its capital stock from $2,000,000 to $5,000,000, with the purpose of building a line from Talala, Ind. T., on the St. Louis, Iron Mountain & Southern Ry. to Joplin, Mo. The incorporators of this road are: Jay Forsythe, Maj. Moberly, C. B. Lynch, Ed. C. Reynolds, W. A. Cook, W. H. Hendren, C. B. Walker, M. B. Baird and C. J. Sawyer.

LAKE SUPERIOR & SOUTHEASTERN RY.—A $6,000,000 mortgage has been filed in New York for all the holdings of this company at the head of the lakes to finance the construction of a line from Duluth and Superior to Ladysmith, Wis., 125 miles. R. C. Young, Marquette, Mich., is Ch. Engr.

MIDLAND VALLEY.—A contract has been let to KAHANMANN & McMURRAY, MANEY BROS. and ROBERT KINCAID to build from Pawhuska to Arkansas City, Kan., thus completing this line from Muskogee into Arkansas City. The Midland Valley has taken out a charter in Kansas with a capital stock of $1,865,000, with headquarters at Fort Smith, Ark.

MOBILE & OHIO.—The extension from Vardaman to Calhoun City, Miss., will be eight miles long. The contract has been awarded to H. C. McCRARY & CO., of Okolona, Miss. H. I. Randolph is Engr.-in-Charge at Okolona.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—It is reported that WINSTON BROS., of Minneapolis, Minn., have been awarded the contract for building a line from Devils Lake to Rock Lake, N. Dak., about 50 miles.

NEW YORK, NEW HAVEN & HARTFORD.—It is said that the company will spend $1,000,000 upon locomotive repair shops at Norwood, Mass.

PORTLAND & SOUTHEASTERN.—Incorporated in Arkansas to build a railroad from Portland, Ashley County, through Ashley and Chicot Counties to the Louisiana line, 20 miles. Directors, H. C. Bradley, Isaac Kirkla, Henry C. Christy, Cleveland, O.; J. C. Bain, Portland; J. A. Dean, Portland; Frank M. Vetter, Buffalo, N. Y. Capital, $400,000.

PORT ARTHUR & HOUSTON SHORT LINE.—The contract for building the first 40 miles of this road from Port Arthur to Houston, Tex., has been awarded to H. F. BEST, of Port Arthur, Tex. H. M. G. Falkenburg, Port Arthur, is Ch. Engr.

SOUTHERN RY.—The contract for building the spur from South Knoxville, Tenn., to marble quarries, 2½ miles, has been awarded to S. P. CONDON, of Knoxville. W. B. Crenshaw is Resident Engr., at Knoxville, Tenn. Noted last week.

SOMERSET RY.—We are informed that Henry F. Hill, Ch. Engr., Augusta, Me., wishes to correspond with railroad contractors in New England or New York who make a specialty of railway construction. The Somerset Ry. Co. will let between 25 and 30 miles of construction work this season, either as a whole or in sections. The work will be in a heavily-wooded country and contractors who have had experience in such sections will be preferred.

SOUTH ATLANTIC TERMINAL CO.—The South Atlantic Terminal Co., with headquarters at Wilmington, N. C., has been chartered to construct and operate a railroad for freight and passenger transportation to run between Wilmington and Southport. The road will be built first from Navassa to Southport, and will later be extended to Wilmington. The length will be about 30 miles. Capital stock is $150,000. The incorporators are: H. A. Dougherty, of New York; D. W. Bullock, of Wilmington; William M. Bellamy, George L. Morton, C. T. Bennett and Joseph H. Hinton, of Wilmington.

SAN ANTONIO & GULF.—Bids will be received for building an extension from Stockdale to Cuero, Tex., 40 miles. J. M. Lee is Gen. Mgr. at San Antonio, Tex.

ST. MARY, SUWANNEE & GULF.—A charter has been granted this company. Capital, $20,000. Company will construct, maintain and operate a railroad to points in Nassau County and thence by the most direct route through and across the counties of Baker, Columbia, Hamilton and Suwannee in Florida, to the town of Live Oak, and through the counties of Suwannee, Lafayette, Taylor, Jefferson and Wakulla a distance of 180 miles. Among the incorporators are: Frank Drew, T. P. Alston, George L. Drew and R. N. Ellis, Jr.

TIDEWATER RY.—We are informed by C. P. Howard, Ch. Engr., Norfolk, Va., that length of this railway will be 345 miles. Whole line has been surveyed and location adopted. Contract for 95' miles west from Sewall's Point, Va., is let to SANDS & OLIVER, of Roanoke, Va. Contract for 300,000 cross-ties has been let to W. R. BONSAL & CO., of Hamlet, N. C. Noted on June 1.

VIRGINIA & CAROLINA COAST.—A company will be incorporated with $7,500,000 capital to build a railway from Norfolk, Va., to Beaufort, N. C., 150 miles. Rudolph Kleybolte & Co., of Cincinnati, O., are financial agents. Among the reported promoters are named J. T. Odell, of Pittsburg, Pa., vice-Pres. and Gen. Mgr. of the Pittsburg Bessemer & Lake Erie R. R.; Oakleigh Thorne, Pres. of the Trust Company of America and a director of the Seaboard Air Line and others. New York office of Kleybolte & Co. is 27 Pine St.

WISCONSIN & MICHIGAN.—At the special meeting held at Marinette, Mich., on June 12 the company's officers voted upon the following projects: "To purchase or construct a branch railroad from the main line of said company's railroad at Everett, Mich., to the state line at Miscauno Island, in the Menominee River; to lease, purchase or construct a railroad from the State line at or near Miscauno Island northwesterly, through the state of Wisconsin, to the city of Superior, Wis., and to the city of Duluth, Minn.; to lease, purchase or construct a railroad from Quinnesec, Mich., to Iron Mountain, Mich., and thence to the State line in the Menominee River westerly from Iron Mountain." It is also proposed to amend the articles of organization so as to increase the capital stock of the company from $1,500,000 to $5,000,000, likewise to issue mortgage bonds. Noted on June 1.

WESTERN PACIFIC.—It is planned to begin actual work of construction on September 1 and to have the 850 miles of main line finished by June 1, 1907. W. J. Bartnett, Safe Deposit B'dg., San Francisco, Cal., is Pres. G. L. Dillman is Ch. Engr.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ROCKLAND, MASS.—Charles Remington, Pres. of the Plymouth County Street Ry. Co., which will build a 28-mile electric line from Rockland to Brant Rock, announces that work will begin on construction of the road at once.

MILLBURY, MASS.—Changes have been made in franchise granted to the Worcester & Providence Electric line, regarding proposed route.

BROOKLYN, N. Y.—E. W. Winter, Pres. Brooklyn Rapid Transit Co., has applied for a franchise for the Nassau Electric Ry. Co. to operate line on Livingston St., Flatbush Ave. and Lafayette Ave.

AUBURN, N. Y.—State Board of Railroad Commissioners has granted permission to the Auburn & Northern Electric R. R. Co. to build its line from Auburn to Port Byron, and to issue a first mortgage of $1,000,000 for this purpose.

MARCELLUS, N. Y.—The Marcellus Electric Railroad Co. has been reorganized under the name of the Marcellus & Otisco Lake Railway Co., with a capital of $200,000. The incorporators and directors are G. M. Brill, of Bryn Mawr, of Marion, Pa.; S. S. Merv... New Brighton Pa., and H. R. Bayre, ... (S. I.), N. Y. It is repo... that an extension to Cortland and Tully ...nned.

LIMA, N. Y.—We are in... that capital is secured and part of rig...way obtained for an extension of the ... & Honeoye Electric Light & R. R. Co... No contracts are let, and will n... awarded for some time. E. D. Watkin..., N. Y., is Mgr.

ROCHESTER, PA.—The R... ter, Monaca & Ambridge Street Railw... Co. has applied for a charter to build ... Rochester, over the Ohio River bridge ... Monaca, and thence to Aliquippa and the ... eny County line.

YORK, PA.—We are info... that surveys are completed and right-of-w... obtained for an extension of the Red L... & Windsor Electric Ry. Co. from Winds... Rittersville, 2 miles. Contract for track ... let. Company will build the overhe... A. H. Hayward is Gen. Mgr.

WASHINGTON, D. C.—W... informed that William H. Benton, Ch..., of the Anacostia, Surrattsville & Br...wine Electric Ry. Co., has made preli... surveys beyond Silver Hill, Prince G... to Henson's Branch, and that practi... all right-of-way has been secured. A ... to build this line in the District of Co... was secured at the last session of ...gress. It begins a... tersection of ...ison and Monroe Sts., Anacostia, and ... through Silver Hill, Camp Springs, Cl... T. B., and terminates at Brandywine, Md. Work of construction will be started in the District of Columbia within six months. The road will be about 20 miles long, single track. Mr. Benton is located at 930 F St., N. W., Washington, D. C.

WASHINGTON, D. C.—The East Washington Heights Traction Ry. Co. has awarded contract to E. SAXTON, of Washington, for construction of its line, as noted on May 25th.

WESTINGHOUSE, CHURCH, KERR & CO., Engrs., 8 Broad St., New York, have been awarded contract, we are informed, for equipment and for completion of the Great Falls & Old Dominion Ry. Co. Contracts also call for erection and equipment of power house.

BALTIMORE, MD.—Bids will be received by the Roberts & Abbott Co., Engrs., 801 Maryland Trust Bldg., Baltimore, for about 730,000 cu. yds. grading and about 1,600 ft. of pipe culverts for the Washington, Baltimore & Annapolis Electric Ry. (Advertised, Engineering News.) An ordinance is before city council granting the Baltimore Terminal Co. the right to construct and maintain tracks in connection with the Washington, Baltimore & Annapolis Elec. Ry. Co. An option has been secured on a site for terminal near Liberty and Baltimore Sts. Construction has been started, and terminal rights acquired at Washington and Annapolis. Railway would be about 31 miles long. A syndicate of Cleveland, Toledo and Akron (Ohio) capitalists, headed by Lamprecht Bros. & Co., F. N. Wilcox and James Christy, Jr., organized the Washington, Baltimore & Annapolis Elec. Ry. Co. in 1901. Construction was started, but was suspended when the company went into the hands of receivers July 12, 1903. Last January a syndicate, headed by George T. Bishop and John Sherwin, both of Cleveland, O., acquired the property. The former is president of the Northern Texas Traction Co., as well as receiver for the Eastern Ohio Traction Co., and the latter is president of the First National Bank of Cleveland, O. Both men were syndicate managers of the Northern Texas Traction Co.

COCKEYSVILLE, MD.—It is reported that subscriptions are being secured for the proposed Cockeysville Electric Co., which will build from this place, via Lutherville, to Towson. William H. Wight is interested.

WINCHESTER, VA.—N. Wilson Davis, of Harrisonburg, Va., has been appointed resident engineer for the Winchester & Washington Electric Ry. Co. Mr. Davis, it is reported, will be in charge of construction work.

HUNTSVILLE, ALA.—Subscriptions are being raised for the Nashville & Huntsville Interurban Ry. Co. The railway, as projected, will be built from Nashville to Huntsville upon condition that $60,000 be subscribed by Madison County. Tracy W. Pratt, Frank J. Thompson, President-elect of the Chamber of Commerce, and Clarendon Davis, President of the Farmers' Club, of Huntsville, were appointed as a committee to secure necessary subscriptions. J. H. Connor, of Nashville, is Pres. of the Ry. Co. The line will pass through Murfreesboro, Shelbyville and Fayetteville, Tenn.; Huntsville, Birmingham and Montgomery, Ala., and to Pensacola, Fla. Financial arrangements are said to have been made with the Municipal Bond & Securities Co., 170 Broadway, New York, for its construction.

HATTIESBURG, MISS.—J. Z. George, Engr., of New Orleans, has surveyed route for the new city street railway. See May 4.

JELLICO, TENN.—The proposed Jellico Electric Ry. Co.'s line will extend from Newcomb, Tenn., to Corbin, Ky., by way of Jellico, Tenn., and Williamsburg, Ky.

BRYAN, O.—Charles E. Van Bibber, Ch. Engr. for the Patrick Hirsch Construction Co., of Toledo, has been commissioned to run surveys for the extension of the Toledo & Indiana Ry. from Bryan to Fort Wayne, Ind. W. J. Sherman, Nasby Bldg., Toledo, is Ch. Engr.

COLUMBUS, O.—The Columbus, New Albany & Johnstown Traction Co. has given a mortgage for paying off its indebtedness and completing its line. The STANDARD ENGINEERING CO., of Cleveland, is reported to have contract for proposed extension.

GALION, O.—We are informed that the Galion Southern Ry. Co. will extend from Galion through Blooming Grove, Johnsville, Woodbury, Batemantown to Fredericktown,

25 miles. Sur... is being made. Right-of-way is being ...cured, also city and county franchises. F...nancial arrangements are made, and con...cts will be let soon. Walter L. Ball, Fred ...ktown, is Pres. Previously noted.

GAS CITY, ...D.—Council has granted W. B. Dodd, of ...on, a franchise to build the Marion, Hart... City & Union Traction line from Gas Ci... to Hartford City. Noted last week.

LAPORTE, ...D.—The South Bend Western Railway Co., ...ich is the name under which the Indiana ...ilway Co. will construct an interurban li... from South Bend to Laporte, through New ...arlisle and Rolling Prairie, has been inc...orated with capital stock of $100,000. W...am L. Taylor, of Indianapolis, is P...; Mortimer H. Reed, South Bend, second ...ce-Pres.; W. W. Babcock, of South Bend, ...cy., and Charles Lohman, of South Bend, ...reas. Fred. W. Bueltzingslowen is a ...rector.

JACKSON, MICH.—General Manager J. P. Clark, of the ...etroit, Ypsilanti, Ann Arbor & Jackson Ry., of Ypsilanti, Mich., has announced th... financial arrangements are made for co...structing an electric line between Jackso... and Adrian. Eastern capitalists are inter...sted, including Chas. B. Hole, New York, of the firm of Chas. B. Hole & Co., represen...g Coler & Co., 59 Cedar St.; H. L. Rand..., of Randall & Co., New Milford, Conn.; Chas. Barlow, Pres. of Yale National Ba..., New Haven; E. H. Spaulding, of New London, Conn.; and Adrian Paradise, of Brooklyn, New York.

KALAMAZOO, MICH.—Common council has granted a franchise to the Kalamazoo & South Haven Interurban line. This insures the construction of an electric line between the cities named. Work will begin at once. S. J. Dunkley, of Kalamazoo; G. E. Barden, of Otsego, and other capitalists are interested. It is planned to have much of the road completed by fall. All right-of-way has been secured.

CHICAGO, ILL.—Bion J. Arnold, Traction Engr., has submitted plans and specifications to Mayor for the proposed street railway system. The plans provide for the construction of over nine miles of tracks: four miles of underground and five miles of overhead trolley, and all the power plants, cars, transmission lines, repair shops, telephone system, and other appurtenances to a complete working system. The municipal system, when constructed, will occupy the streets in which the Chicago Passenger Co. operates cars, and in which the franchises have expired. The plans provide for a trunk line system and two branches. The trunk line will occupy the following streets: Adams St., from Clark to Desplaines; Desplaines St., from Adams to Harrison; Harrison St., from Desplaines to Western Ave.; Western Ave., from Harrison to 12th St.; 12th St., from Western Ave. to 40th St. The branch lines will be on: Halsted St., from Harrison to Chicago River, and Ogden Ave., from Harrison to 40th Ave. The mileage of the various lines will be: Trunk line system, 5.72; Halsted St., 1.59; Ogden Ave., 1.81; total, 9.12. Of this mileage, the specifications require the installation of the underground trolley from Clark St. to Ogden Ave., a distance of 2.35 miles, and in Halsted St., from Harrison to O'Neill Sts., a distance of 1.59 miles. The underground system proposed is to be a combination of the best features of the New York and Washington systems. The specifications call for 100 standard passenger cars, three sweepers, one snow plow, one sprinkler, two repair wagons, and 100 contact plows. Each line is provided with a telephone, including a portable telephone with each car. The power plant specifications provide for the necessary buildings and machinery, conduits, wires, and all the details required for a working system. Separate bids are required for the trunk line system, each of the two branches, and the power plants and equipment. The bids are to be filed with City Comptroller McGann, by 2 p. m., July 1, as was advertised in Engineering News from April 13 to May 11.

EAST ST. LOUIS, ILL.—The East St. Louis & Suburban Ry. Co. is changing the gage of its tracks from 4 ft. 10 ins. to standard gage. THE HILL-GAYNORD CONSTRUCTION CO., of East St. Louis, Ill., has the contract to remove and replace all brick and concrete on the improved streets in East St. Louis and Belleville, Ill., over which the company operates.

Notice has been given that the St. Louis & Northeastern Railway Co., on June 19, will ask city council for a franchise and right-of-way over the following streets: Gross, Lynch and Ridge Aves., Tenth, 15th, Third, 19th, 16th and Fifth Sts., in order to construct, operate and maintain an electric railway. W. B. McKinley, of Urbana, Ill., is Pres. of the company.

MANKATO, MINN.—The Mankato & St. Peter Railway & Lighting Co. has filed its acceptance of the franchise recently granted it by the city council providing for seven miles of tracks in the city and for a 20-mile extension to St. Peter. The company is capitalized at $300,000. C. N. Andrews is Pres.

ST. LOUIS, MO.—The St. Louis & Fenton R. R. Co., recently incorporated, will build a 12-mile line between Carondelet (St. Louis) and Fenton. E. J. Thurman, John B. Clayton, A. F. Fisher, W. A. Kammerer and P. B. Blackman are the incorporators.

STEPHENVILLE, TEX.—We are informed that route has been only partly outlined for a proposed electric railway, about 70 miles long, between Thurber, Stephenville, Dublin and Hamilton. Survey is not yet made. The line will begin at mining camps at Thurber and connect with the Texas Central and St. Louis & San Francisco Ry. systems. Eugene Moore, Secy. Commercial Club, is promoting the project.

LOS ANGELES, CAL.—J. Harvey McCarthy, Pres. of the Pioneer Investment & Trust ...n sold a 40-year franchise for a street car line on Indiana Ave., from First to Fifth Sts.

PACIFIC GROVE, CAL.—M. V. McQuigg, Pres. Monterey County Gas & Electric Co., of Pacific Grove, states that an extension of the Monterey & Pacific Grove Ry. will be built from Pacific Grove to Carmel-by-the-Sea. Bids will be taken. It will be about 11 miles long.

RED BLUFF, CAL.—E. B. Walbridge has been granted a franchise to construct and operate an electric railway in Tehama County.

STAR, IDAHO.—E. H. Dewey has made proposition to citizens to build an electric railway from Middleton to Eagle Island, about 14 miles, upon condition that right-of-way is donated and 2,000 acres of beets will be contracted to be grown. O. N. Hall, J. H. Wood, Mokes Hughes and others are a committee appointed to consider the plan.

CHATHAM, ONT.—THE WHALEN CONSTRUCTION CO., of Towanda, Pa., is reported to have been awarded contract for building the railway for the Chatham & Wallaceburg Electric Ry. Co. G. W. Kipp, of Towanda, is Pres. and Gen. Mgr. of the Ry. Co.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids are asked by Capt. A. W. Yates, Q.-M., 187 Middle St., until 11 a. m., June 20, for electric light and power distributing system at Fort McKinley.

BRISTOL, VT.—Town has granted privilege to the Lake Dunmore Power & Traction Co. to lay a penstock along certain highway. This company has absorbed the Bristol Electric Co. It plans to construct a dam in the New Haven River, 30 feet high, it is reported. This, with other contemplated improvements, will cost about $20,000. T. S. Drake, Bristol, is Mgr.

PROVIDENCE, R. I.—Councilman E. Merle Bixby has introduced an ordinance favoring the establishment of a municipal lighting plant.

NORWICH, CONN.—The Uncas Power Company, of this city, has been chartered with maximum capital stock of $1,000,000. It will distribute power throughout New London county and furnish electric power to the Groton & Stonington St. Ry. Co. and to the Norwich, Mystic & Westerly St. Ry. Co. Costello Lippitt and Edwin W. Higgins, of Norwich; and Charles W. Comstock, of Montville, are the incorporators.

BINGHAMTON, N. Y.—The bid of the BINGHAMTON LIGHT, HEAT & POWER CO. for furnishing city lights has been accepted.

BINGHAMTON, N. Y.—The Anti-Monopoly Light & Power Co. has been incorporated with $100,000 capital. A. G. Stephenson and J. L. Walsh; and G. B. Hayes, 35 Nassau St., New York, are named as directors. Company has executed a $350,000,000 mortgage in New York.

WELLSBURG, N. Y.—The Ashland Natural Gas Co. has been incorporated with $15,000 capital. The officers are: President, Robert Reynolds, Elmira; Treas., Norman P. Brainard, Andover; Secy., James P. Drake, Watkins. The company will commence operations at once.

CHURCHVILLE, N. Y.—The Churchville Heat, Light & Power Co. has been organized. The company is capitalized for $5,000. Wm. L. Ormrod is Pres.; Hiram C. Davis, Secy.; and F. W. Potter, Treas. Its purpose is to light and heat the village of Churchville. The company has secured from the village board of trustees authority to lay and maintain line of gas mains throughout the village. The acetylene gas plant of F. W. Potter has been purchased.

TROY, N. Y.—Preliminary plans and specifications will be prepared in connection with proposed investigation of the cost of erecting a municipal light and power plant.

LYONS, N. Y.—The Niagara, Lockport & Ontario Power Co. has filed notice of extension of its field of operation. This includes "the purchasing, manufacture, using and supplying of electric power for lighting, heat and power in lighting streets, avenues and public places." Originally it was incorporated to transmit power. It also includes the additional territory of Niagara, Erie, Orleans, Monroe, Genesse, Livingstone, Wayne, Seneca, Cayuga, Onondaga, Madison, Oneida and Herkimer Counties.

NIAGARA, N. Y.—GEORGE SCHAAF, of Buffalo, has contract for building new transformer station for the Niagara, Lockport & Ontario Power Co. at what is known as Devil's Hole. Cost, $25,000.

UTICA, N. Y.—The Central New York Power Co. has been incorporated by William E. Lewis, Harry S. Patten, Thomas D. Watkins and Jacob Agne, of Utica; and Byron E. White, of Taberg. The stated purpose of the company is "the manufacture and sale of gas and electricity in all parts of the State except Greater New York and Long Island." The water power of Fish Creek, 25 miles distant from Utica, will be developed. William E. Lewis, of the firm of Lewis, Watkins & Titus, is legal representative.

ATLANTIC CITY, N. J.—Bids are asked until 8.30 p. m., June 19, for lighting the Boardwalk with incandescent electric lights. John Donnelly is member of Lighting Com.

WASHINGTON, D. C.—The POTOMAC ELECTRIC POWER CO., of Washington, has been awarded the contract to supply electric lights for the Potomas River highway bridge and its approaches and also for the motors for operating the draw.

ELKTON, MD.—Water power of Gilpin's Falls, near Bayview, will be developed for illuminating and manufacturing purposes. B. F. Groff, a Hydraulic Engr., representing Wm. T. Warburton, of Elkton, has purchased mills and water power of John F. Johnson for $13,500.

ASHLAND, VA.—FRANK J. GOULD has been awarded contract for lighting this place with electricity.

WINCHESTER, VA.—The Winchester & Washington Electric Ry. Co. will erect a power plant on the Shenandoah River. Bids will be received, it is said, about June 15. N. W. Davis, of Harrisonburg, Va., is Engr.

PETERSBURG, VA.—Municipal ownership of lighting plant is under consideration. J. M. Quirk, Chn. Council Com. on Gas and Lights, is in charge.

GREENVILLE, S. C.—We are advised that the contracts for the construction work of the dam and power house for the Saluda River Power Co. have been awarded to JOHN F. GRANDY & SON, of Greenville. Tentative contracts have also been made with the WESTINGHOUSE ELEC. & MFG. CO. for the electrical equipment of the station, and with S. MORGAN-SMITH CO. for the hydraulic machinery. The contractors for the construction have already begun their work, and it is hoped to have the plant and installation completed this year. Noted on May 4. Lockwood, Greene & Co., 93 Federal St., Boston, are Engrs.

COLUMBUS, GA.—It is reported that the Westinghouse Electric & Manufacturing Co., of New York, are preparing plans, estimates and specifications for the complete electrical construction and equipment of Stone & Webster's Chattahoochee electric hydraulic power plants and development providing for at least 10,000 HP. The first installation will be three miles above Columbus, at Clapp's factory site. Other available points have been noted and inspections and surveys made. H. S. Stone and H. G. Bradley, representatives of the Stone & Webster syndicate, have made a report. Noted on May 18.

OZARK, ALA.—We are informed that city contemplates erection of a 300 HP. dam across the Choctawhatchee River and intends to install an electric power plant. Plans and specifications are now being prepared by Marvin McDonald, Supt. Lights and Cy. Engr., who will be in charge of construction work. City will be in market for machinery and material only.

NEW ORLEANS, LA.—The Tangipahoa Light & Power Co., Ltd., has been chartered with $20,000 capital stock, to construct electric light and power plants. William T. Sprangley is Pres.; D. H. Hull, Vice-Pres. and Mgr.; and Lyman C. Reed, Secy.-Treas.

The Consumers' Electric Power Co. has purchased a site for its plant.

WESTERVILLE, O.—A special election will be held on July 3 to vote on issuance of $8,000 of bonds for erecting a municipal electric light plant. C. P. Sprague is Cy. Clk.

MONTICELLO, IND.—Prof. George E. Waesche, of Purdue University, Lafayette, Ind., will prepare plans for a dam across the Tippecanoe River at a point near this city for the Tippecanoe Hydraulic Co., of Monticello.

FORT WAYNE, IND.—The Fort Wayne Gas Co. has awarded contracts for an artificial gas plant to the WESTERN GAS CONSTRUCTION CO. and the KERR-MURRAY MFG. CO. Est. cost, $200,000.

MONTPELIER, IND.—The Montpelier Light & Water Co. has been incorporated with a capital stock of $75,000. The incorporators are John Kerlin, E. V. Conners, T. J. Driscoll, E. M. Kerlin and W. H. Roose. Company has already commenced extensive improvements.

CRAWFORDSVILLE, IND.—The Water & Light Co. will make improvements to its water and gas plants, costing probably $125,000, if granted franchise.

HARTSVILLE, IND.—Charles Elliott, of Burney, has been granted an electric light franchise in this town.

DETROIT, MICH.—Albert Kahn, Arch., Union Trust Bldg., has prepared plans for the Murphy power house. Est. cost, $115,000.

MINNEAPOLIS, MINN.—The Minnesota Power & Trolley Co. was recently granted a franchise by the city council giving it permission to use the streets and avenues of the city for conveying electric power from Champlin, Minn. The company is planning the erection of a power-house and a 30-ft. concrete dam across the Mississippi River at Champlin. F. W. Cappelin is Ch. Engr., 610 Globe Bldg.

ST. PAUL, MINN.—GEORGE COOK, 2400 Colfax Ave. South, Minneapolis, has the contract for erecting the Twin City Rapid Transit Company's plant at Snelling and University Aves. The plant includes 15 fireproof buildings to cover six acres of ground and to cost $400,000. G. L. Wilson is Ch. Engr., Hennepin Ave. and Eleventh St., Minneapolis.

Plans for power plant for the American District Steam Co. have been filed. The cost of the building will be $125,000. It will be six stories high and fireproof throughout. The building is to be located at the foot of Market St. below Third St.

VALLEY JUNCTION, IA.—The Valley Junction Water & Light Co. has filed articles of incorporation with a capital stock of $12,000. John Fisher, A. H. Van Dyke, John and T. H. Ashworth, of Valley Junction, are incorporators. The new company has set apart $6,000 for improvements to water and electric plants.

CRESTON, IA.—The Creston Electric Co. has been organized. Capital, $50,000. Officers are: Pres., J. C. Sullivan; Vice-Pres., C. S. Rice; Secy., Dr. J. W. Reynolds; Treas., John Hackett.

YANKTON, S. DAK.—Sanford E. Donaldson has been granted a 20-year electric lighting franchise.

The Yankton Heating & Lighting Co. has been organized here with $100,000 capital stock and will at once construct an acetylene plant. The officers are: G. W. Roberts, Pres.; L. C. Kroh, Vice-Pres.; E. A. Bruce, Secy.; and W. H. Edmunds, Treas.

SHERIDAN, WYO.—Bids are asked until June 19, 10 a. m., for installing an interior and exterior electric lighting system at Fort Mackenzie, Wyo. Capt. James S. Parker, Q. M.

KANSAS CITY, MO.—James A. Fleming has applied for a natural gas franchise.

SEDALIA, MO.—The property and franchises of the Sedalia Water & Light Co., the Sedalia Gas & Fuel Co. and the Railway & Electric Co. of Sedalia have been sold to a syndicate of eastern capitalists. It is reported that improvements, to cost $800,000, will be made this year.

DEL RIO, TEX.—The Del Rio Electric Light & Ice Co., capital $20,000, has been chartered. Company will install and operate an electric light and ice plant. J. G. Darden, of Jericho; John M. Gray, of Del Rio, and Maynard Gunsul, of Albuquerque, N. Mex., are the incorporators.

WARREN, ARK.—Warren Light & Water Co. is incorporated, with $20,000 capital stock, to operate water-works and electric light plant. Fred L. Purcell is Pres.; W. J. Savage, Vice-Pres.; and Carl Hollis, Secy. Jerry Wells is Engr.

GAINESVILLE, TEX.—The Gainesville Electric Railway & Light Co. has purchased the plant of the Merchants' Electric Light & Power Co. at $75,000. Edward J. O'Beirne, 418 Scimitar Building, Memphis, Tenn., is Pres. and Engr.-in-Charge.

DENVER, COLO.—The Denver Municipal Ownership League has been organized. League was formed to further plans for municipal ownership of light and other plants.

NEWPORT, WASH.—Council has granted franchise to the Newport Electric Co. for light, power and other purposes.

UKIAH, CAL.—N. P. KELSO has contract for boring a 4,000-ft. tunnel through mountains in Potter Valley, north of Ukiah, to connect Eel River with the valley. Tunnel will be used to divert water from Eel River into large reservoir in Potter Valley. This water will be utilized to generate electricity.

WINNIPEG, MAN.—The Winnipeg, Selkirk & Lake Winnipeg Electric Ry. Co. will erect a power house in this city, it is reported.

MONTREAL, QUE.—GUY M. GEST, of Cincinnati, has been awarded contract for excavating conduits and laying electric wires for the Montreal Light, Heat & Power Co. Work will cost over $1,000,000. R. M. Wilson is Supt. Power Co.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids, plans and specifications for construction of bridge over Fore River, between Portland and South Portland, will be received by the Commissioners of the Portland Bridge District until July 8. Bridge is to be about 1,348 ft. long, with roadway 40 ft. wide and two sidewalks each 6 ft. wide. It is to have a draw with either one or two openings. Geo. N. Fernald, Engr. (Advertised, Engineering News.)

RUTLAND, VT.—WALLS & KERNEY, 300 Jefferson St., Buffalo, N. Y., were awarded contract, at $458, for purchasing a wrought steel, riveted lattice bridge, 487 ft. long. Bids were opened June 5 as advertised in Engineering News. H. B. Whittier, Cy. Clk.

NORTH ADAMS, MASS.—Bids are asked by C. J. Arnold, Comr. of Public Works, until June 21, for the construction of steel superstructure of plate girder highway bridge; bids are also wanted for moving, altering and erecting steel superstructure of plate girder bridge now being used for highway purposes and street car traffic. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

PATERSON, N. J.—It is stated that bids will be received by Board of Freeholders until June 22 for construction of Passaic drawbridge.

SEABRIGHT, N. J.—Bids are asked by Board of Chosen Freeholders until June 19 for constructing a steel or iron bridge over Deal Lake, between Allenhurst and Interlaken. John Guire, Dir.

JERSEY CITY, N. J.—Bids will be received by Board of Chosen Freeholders until June 19 for constructing a new center pier, draw span, resting piers and painting of fixed spans of bridge across Hackensack River at Newark Ave. John P. Nooman, Deputy Clk.

READING, PA.—Bids are asked by Horace Livingood, County Controller, until 10 a. m., June 23 for building steel girder, superstructure and concrete roadway bridge over Saucony Creek in Maxatawny Township; bids are also wanted for bridge with truss superstructure and concrete roadway. (Advertised, Engineering News.)

CHESTER, PA.—A petition has been presented to the court asking for the erection of a bridge at Fifth St.

LANCASTER, PA.—County commissioners awarded the contract for constructing steel bridge over Octoraro Creek at Greist's Fording to MOUNT VERNON BRIDGE CO., of Mt. Vernon, O., for $1,877.

ALLENTOWN, PA.—County Commissioners have awarded contract for building Catasauqua bridge to the YORK (Pa.) BRIDGE CO., at $87,590. Other bids were: King Bridge Co., of Cleveland, O., $92,300; Eyre Const. Co., of Philadelphia, $89,950; National Bridge Co., of Syracuse, N. Y., $107,000; Penn Bridge Co., of Beaver Falls, concrete, $89,900; stone masonry piers, $93,260; Groton Bridge Co., of Groton, N. Y., $94,000; Alleger & Co., of Wilkesbarre, concrete, $89,000; stone masonry piers, $92,000; Canton Bridge Co., Canton, O., $91,000; W. H. Gulick, of Old Dominion Bridge Co., of Phoenixville, $111,257; Oswego Bridge Co., of Oswego, N. Y., $94,300; New Jersey Bridge Co., of Manasquan, N. J., $91,000 and $91,500; Belmont Iron Works, of Philadelphia, $89,000; Berlin Const. Co., of New York, $92,700, and Neelson & Buchman Co., of Chambersburg, $92,900. The bridge is to be 1,154 ft. long and will extend from Front and Pine Sts. across the canal and Lehigh River and the tracks of the Jersey Central, Catasauqua & Fogelsville and the Lehigh Valley railroads and the Crane Iron Works. It will be a viaduct to the canal, then will

come a 170-ft. truss span, then two deck spans of 170 ft., then one through span of 150 ft., with an 18-ft. roadway and two six foot sidewalks, to be completed in six months.

NEW ORLEANS, LA.—The contract for constructing a bridge over Town Creek at Rankin St., has been awarded to SANDS, LAWSON & KON CO., of Norfolk, Va., for $5,600.

CHATTANOOGA, TENN.—The contract for the erection of piers for new drawbridge for Southern railway over Tennessee River has been let to B. H. HARDAWAY, of Columbus, Ga. It is understood that the contract will amount to about $100,000.

PARIS, TENN.—Two bridges between this place and Louisville & Nashville station were recently carried away by floods.

ASHLAND, KY.—It is stated that the Ashland & Tug River R. R. Co. will construct a bridge over the Ohio River at this point.

AKRON, O.—Plans submitted by B. & O. Railroad for a bridge across East North St., have been approved upon recommendation by City Council, and were referred to Bridge Committee.

CLEVELAND, O.—Bids are asked by County Commissioners until June 24 for construction of concrete steel culverts and masonry abutments. Julius C. Dorn, County Clk.; Wm. H. Evers, Engr.

DAYTON, O.—Bids were received by Board Public Service, June 6, as advertised in Engineering News, for construction of concrete steel bridge across Great Miami River, as follows: Frank J. Cullen, Chicago, Ill.; $116,810; Gable & Dieter, Dayton, $122,264; Williams Bros. & Morse Co., Cleveland, O., $124,006; Shailer & McCormick, Boston, Mass., $124,542; H. E. Talbott & Co., Dayton, $131,209; New Castle Bridge Co., Indianapolis, Ind., $132,668; Hoglen & Kline, Dayton, $138,624; J. P. Rusche, Grand Rapids, Mich., $142,502; Ed. Ryan, Springfield, O., $167,327. F. M. Turner, Cy. Engr. For itemized bids see under Contract Prices.

CLEVELAND, O.—Contract for constructing concrete-steel bridge over Newburg and South Shore Road has been let to WILLIAMS BROS. & MORSE CO., of Cleveland. Cost, about $17,000.

COLUMBIA CITY, IND.—Bids will be received by County Commissioners until June 20 for constructing several steel bridges and concrete stone abutments throughout the county. Chas. E. Lancaster, County Audr.

BLOOMFIELD, IND.—We are informed that the contract for one 60-ft. span steel bridge in Stafford Township has been awarded by County Commissioners to VINCENNES (Ind.) BRIDGE CO., for $1,394. L. V. Deckard, Deputy County Audr.

PLYMOUTH, IND.—All bids received June 5 for constructing bridges in German and Green Townships were rejected by County Commissioners and new bids will be received until July 5. H. L. Singrey, County Audr.

MT. VERNON, IND.—The following bids were received June 5 by County Commissioners for constructing five steel bridges in county: Vincennes (Ind.) Bridge Co., $3,855; W. A. Braden, Petersburg, Ind., $4,008; Lafayette (Ind.) Engr. Co., $4,016; Indiana Bridge & Iron Works, Indianapolis, $3,765. The last named company bid only on four bridges. S G. Howard, County Audr.

TERRE HAUTE, IND.—Bids will be received by County Commissioners until July 8 for construction of various bridges.

PERU, IND.—A 700-ft. concrete bridge is to be built over Wabash River at this place. Cost, $36,000.

FORT WAYNE, IND.—C. M. Becker & Co., of Ft. Wayne, were lowest bidders for concrete work on 30 bridges and culverts in Allen County. Cost, about $7,500.

MUIR, MICH.—Bids will be received by E. S. Fuller, Deputy Twp. Clk., Lyons, until June 26, for construction of steel or reinforced concrete bridge over Maple River.

ALPENA, MICH.—Contract for constructing a concrete bridge here has been awarded to P. S. & I. G. MEAGHER, of Bay City, Mich., at $8,000. J. H. Bloomshield, Engr., Bay City.

ARLINGTON HEIGHTS, ILL.—Bids are asked until June 19, 11 a. m. (change of date), for construction of reinforced concrete arch bridge over Des Plaines River, Wheeling Township. H. L. Emerson, Engr., Chicago, Ill.

RACINE, WIS.—It is stated that bids will be received until June 17 for constructing a bridge at Main St., to cost $106,000. P. H. Connolly, Cy. Engr.

BEAUMONT, TEX.—It is announced that the Southern Pacific R. R. Co. will construct an overhead crossing or viaduct across its railroad yards in Beaumont, at an approximate cost of $40,000. Hon. P. A. Dowlen, Chn. of Councils Committee, can give information.

MANGUM, OKLA.—Contract for replacing several large bridges recently carried away by high water in Greer County will probably be let at the July meeting. Floyd McNeill is County Clk.

PUEBLO, COLO.—The PUEBLO BRIDGE CO. has been awarded contract for construction of Chico and Huerfano bridges by County Commissioners. Total cost, $11,000.

FOSSIL, ORE.—Bids are asked by County Commissioners until July 5 for construction of a 160-ft. span bridge across John Day River in this (Wheeler) county. H. F. C. Heidtmann, County Surveyor.

THAMESFORD, ONT.—B. D. McCarty will receive tenders until June 26 for the erection of a concrete arch of 50 ft. span in East Missouri Township.

ROBLIN, ONT.—Tenders for the erection of a Howe truss bridge over Assiniboine, ten miles from this place, will be received by Reeve Gill up to June 20.

RENFREW, ONT.—The County Council will rebuild Waba bridge, at a probable cost of $2,000.

TAVISTOCK, ONT.—Contract for constructing three bridges with concrete floors has been awarded to JAS. A. VANCE CO., of New Hamburg, Ont., for $1,335. James Anderson, Twp. Clk., South Zovia, Ont.

CORNWALL CENTRE, ONT. — Tenders will be received by J. Mullin, Twp. Clk., until June 27 for constructing bridges in connection with River Aux Raisin drain.

BROOKHOLM, ONT.—Bids are asked by Wm. Pedwell, Reeve, until June 23, 6 p. m., for construction of a steel bridge, span 80 ft., c. to c., 16 ft. roadway.

For construction of two concrete abutments containing 220 cu. yds., removal of old bridge and filling behind abutments.

For construction of concrete arch at Bay View near Owen Sound. R. McDowall, Twp. Engr., Owen Sound, Ont.

FREDERICTON, N. B.—Tenders will be received by Department Public Works until June 19 for rebuilding Brisby Creek, Nevers and Tedley Creek bridges.

VANCOUVER, B. C.—By-laws have been carried to raise $350,000 for extension and improvement of streets and bridges. Thos. H. Tracey is Cy. Engr.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids are asked until June 20 for construction of band barracks, Fort Williams, Me., and electric light and power distributing system, Fort McKinley, Me. Capt. A. W. Yates, Q. M., U. S. A.

NEW YORK, N. Y.—Julian Bros., 110 Mott St., will erect a six-story brick building.

NEW YORK, N. Y.—J. H. Morgan, Arch., 949 Broadway, is taking figures on a factory and office building to be erected at 247-53 West 14th St., for the American Can Co., 11 Broadway, W. J. Graham, Pres. Brick and stone, semi-fireproof, 7 stories, 100 × 250 ft. Boilers, engines, conveyors, blowers, coal handling machinery, etc. Cost, $200,000.

Henri Fouchaux, Arch., Broadway and 62d St., is taking figures on a loft building to be erected at Hudson and Franklin Sts., for Ida May Powell, 326 West 72d St. Brick and stone, 11 stories, 50 × 100 ft. Cost, $60,000.

Clinton & Russell, Archs., 32 Nassau St., have filed plans for an office building to be erected at 58-60 Cedar St., for Mutual Life Insurance Co. Building to conform in general features to adjoining building; brick and marble, fireproof, 8 stories, 40 × 100 ft. Generators, motors, pumps, heating and ventilating system, conveyors, valves, pipe coverings, etc. Cost, $200,000. A. R. WHITNEY, JR., CO., 135 Broadway, has been awarded the general contract.

The City Realty Co. will build an addition for Lord & Taylor Dry Goods Co., Fifth Ave. and 21st St.; stone and marble, 75 × 125 ft. W. H. Duncan, Arch., 160 Fifth Ave. Generators, engines, heating and ventilating system, etc. Cost, $300,000.

Louis Korn, Arch., 353 Fifth Ave., will take figures at once on an addition to Rothenberg department store on 14th St., to cost about $200,000. Brick and steel, 6 stories, 75 × 150 ft. Engines, generators, sprinkler system, elevators, etc.

General contract for erecting a $150,000 residence for F. M. Sturgis, 30 Broad St., at 17 East 51st St., has been awarded to J. F. DE BAUN, 368 Broadway. Ogden Codman, Arch., 571 Fifth Ave.

C. P. H. Gilbert, Arch., 1723 Broadway, will take figures on a residence for R. Graves, to be located at 882 Fifth Ave. Stone and steel, 5 stories, 30 × 175 ft. Heating system, elevator, 'phone system, etc. Cost, $250,000.

Neville & Bagge, Archs., 217 West 125th St., have filed plans for an apartment house to be erected at 121st St. and Broadway for A. C. & H. M. Hall Realty Co., 360 West 125th St. Brick, stone and steel, 6 stories, 90 × 100 ft. Cost, $160,000.

Maynicke & Franke, Archs., 298 Fifth Ave., have filed plans for a warehouse to be erected at 401-11 Washington St., for the Ragus Tea & Coffee Co., of 79 Water St. Brick and stone, 6 stories, 80 × 130 ft.

Contract for library building to be built at 59th St., for New York city, has been awarded to E. E. PAUL, 289 Fourth Ave. Babb, Cook & Willard, Archs., 3 West 39th St. Cost, $75,000.

Snelling & Potter, Archs., 1170 Broadway, will soon take bids on an automobile garage to be erected at 55 West 93d St., for H. A. Robbins, 20 West 34th St. Brick and steel, 3 stories, 50 × 100 ft. Cost, $50,000.

F. H. Bosworth, Arch., 1170 Broadway, is taking bids on a store building for H. B. Rosengarten, of Philadelphia, Pa., to be erected at 154-8 Maiden Lane. Brick and stone, 5 stories, 50 × 150 ft.

B. Hustace Simonson, 239 Fifth Ave., is architect for studio buildings to be erected at 66th St. and Lexington Ave., instead of Chas. W. Platt, as was erroneously reported.

NEW YORK, N. Y.—O. T. MACKEY & CO., 237 West 50th St., has been awarded the carpenter contract for a loft building for Gorham Mfg. Co. McKim, Mead & White, Archs., 160 Fifth Ave. Previously noted.

The Uptown Educational Society, David Cohen, Pres., 171 Broadway, will erect a building at 132-42 East 111th St., to cost about $200,000. Architect has not yet been selected.

Clinton & Russell, Archs., 32 Nassau St., are taking figures on a residence for Robt. H. McCurdy, 32 Nassau St., to be erected at 32 East 54th St. Brick, 5 stories, 50 × 100 ft. Heating and ventilating system, electric elevators, electric wiring, etc.

FOUNTAIN & CHOATE, 114 East 23d St., have been awarded contract for the erection of a residence for Louis Clark Mohlino, 52 West 52d St., at 51 West 52d St. Buchman & Fox, Archs., 11 East 59th St.; J. R. Moore, Elec. Engr., 156 Fifth Ave. Cost, $75,000.

McKim, Mead & White, Archs., have completed plans and specifications for an addition to the Metropolitan Museum at Central Park, to cost $1,250,000. Stone, brick and steel, 5 stories, 200 × 600 ft.

C. P. H. Gilbert, Arch., 1123 Broadway, has plans in progress for a residence to be erected at 55-57 East 64th St., for Morton C. Nichols. Brick and stone, 5 stories, 25 × 100 ft. Heating and ventilating system, electric wiring, electric elevator, etc. Cost, $75,000.

Hertz & Tallant, Archs., 32 East 28th St., are taking figures on a residence alteration and addition to be built at 28 East 92d St., for Samuel Hoff, 140 Nassau St. Cost, $40,000.

Schickel & Ditmars, Archs., 111 Fifth Ave., will soon take figures for a new laundry and boiler house for the German Hospital at 76th St. and Park Ave. Brick and stone, 5 stories, 60 × 100 ft. Boilers, engines, laundry machinery, elevators, etc.

Bronx Theatre Co., care of Richard Petrot, 441 East 87th St., is taking figures on a theatre building to be erected at Franklin St. and Third Ave., Bronx. M. J. Garvin, Arch., 3307 Third Ave. Brick, 3 stories, 70 × 125 ft.

BROOKLYN, N. Y.—Geo. H. Streeton, Arch., 289 Fourth Ave., New York, is taking figures on a parochial school to be built at Jay and Concord Sts., Brooklyn, for the St. James Cathedral, 250 Joy St., Brooklyn. Brick, 4 stories, 75 × 150 ft.; heating and ventilating system, motors, electric wiring, pumps, etc. Cost, $100,000.

NEWARK, N. J.—J. T. Rowland, Jr., 15 Exchange Place, Jersey City, has been selected to prepare plans for club house for B. P. O. Elkes, of Newark, to be located on Green St., Newark. Cost, $75,000.

MONTCLAIR, N. J.—Van Vlick & Goldsmith, Archs., 111 Fifth Ave., New York, have plans in progress for a $75,000 residence, to be erected at Montclair for S. S. Hirsh, 346 Broadway, New York.

MONTCLAIR, N. J.—Grosvenor Atterbury, Arch., 20 West 34th St., New York, is taking figures on a residence for E. A. Bradley, to be erected at Montclair. Brick and stone, fireproof, 2½ stories, 40 × 90 ft. Heating and ventilating system, blowers, electric wiring, etc. Cost, $75,000.

PRINCETON, N. J.—B. W. Morris, Jr., is taking figures on a new dormitory to be erected at Princeton. Brick and stone, fireproof, 50 × 270 ft., 5 stories; steel stack, electric wiring, elevators, plumbing, etc. Cost, $150,000.

WESTFIELD, N. J.—H. WALES LINES CO., of Meriden, Conn., has been awarded general contract for erecting residence for Mrs. J. S. Foster at Westfield. Cost, about $50,000. J. T. Tubby, Jr., Arch., 81 Fulton St., New York.

PLAINFIELD N. J.—Gordon, Tracy & Swartout, Archs., 244 Fifth Ave., New York, have plans in progress for residence to be erected in Plainfield for G. A. Beaton, 5 Beekman St., New York. Brick and stone, 2½ stories, 40 × 100 ft.

JERSEY CITY, N. J.—Ernest Flagg, Arch., 35 Wall St., is taking figures on a stable to be erected in Jersey City for U. S. Express Co. Brick and concrete, 1 story, 100 × 150 × 225 ft., and will contain 250 stalls. Cost, $100,000.

WEST CHESTER, PA.—Plans are ready for bids for a high school, to be erected by the West Chester Board of Education. Seymour & Paul A. Davis, Archs., 907 Walnut St., Philadelphia. Cost, $75,000.

BALTIMORE, MD.—Bids for restoring St. Paul St. front of court-house and cleaning and repointing the Lexington, Calvert and Fayette St. facades were opened May 31 as follows: Henry Smith & Sons Co., 116 South Register St., $136,477; John A. Sheridan Co., $134,134; WM. FERGUSON & BRO., 214 Clay St., $127,051 (awarded contract); Murphy Const. Co., 112 West 42d St., New York, $149,619; D. M. Andrews Co., $147,450; J. Gill & Son, $143,465; Noel Const. Co., $131,050.

BALTIMORE, MD.—Chas. H. Gerwig, builder, 603 Fidelity Bldg., will erect 23 dwellings on St. Paul St. Brick with stone trimmings, 3 stories, 18 × 68 ft. Cost about $115,000. Jacob F. Gerwig, Arch., 11 East Lexington St., Baltimore.

D. C. WEEKS & SON, 289 Fourth Ave., New York, have been awarded contract for an office building to be erected at Baltimore for the American Telephone Co. Eldlitz & McKenzie, Archs., 1123 Broadway, New York. The building will be ten stories, 50 × 150 ft. Cost, $200,000.

BALTIMORE, MD.—Bids are asked by Board of Awards until June 21, 11 a. m., for the erection of an addition to woman's prison building at Baltimore city jail. E. Clay Timanus, Pres.

WASHINGTON, D. C.—McKim, Mead & White, Archs., 160 Fifth Ave., New York, are preparing plans for an office building, to be called the Washington "Times," and be erected on Pennsylvania Ave., between 13th and 14th Sts., Washington, D. C. Brick and stone, fireproof, 10 stories, 75 × 160 ft. GEO. A. FULLER CO., 949 Broadway, New York, have been awarded the general contract on percentage and desire estimates on all subcontracts. Boilers, engines, motors, pumps, switchboards, heating and ventilating system, conveying machinery, storage battery, etc. Cost, $500,000.

WASHINGTON, D. C.—Bids are asked until 2 p. m., June 24, for construction, plumbing, gas piping, heating and electric wiring a building for bachelor officers' quarters at Fort Myer, Va. Capt. A. W. Butt, Q.-M. (Advertised, Engineering News.)

ASHLAND, VA.—John P. Branch, of Richmond, has given $30,000 in cash to Randolph-Macon College for the erection of new dormitories. Address the president for information.

SWAINSBORO, GA.—Geo. H. Bell will, it is stated, erect a business house to be used for a hotel, stores and offices.

PENSACOLA, FL[illegible] [illegible]ds are asked by Bureau of Yards and [illegible] U. S. N., Washington, D. C., until [illegible] for constructing a brick and steel [illegible] at Navy Yard, Pensacola. Morde[illegible] Endicott, Ch. of Bureau.

JACKSON, MISS.—[illegible] and specifications for brick addition t[illegible] wards House have been prepared and th[illegible] act will be let by I. G. Enochs in a fe[illegible] The addition is to be built in Capito[illegible] nd will cost $40,000.

NEW ORLEANS, [illegible] Toledan & Wogan, Archs., 730 Common [illegible] New Orleans, write us that the proposed [illegible] haud Hotel will be erected on a site [illegible] ft., and will be nine stories high. I[illegible] be fireproof and will have engines, boi[illegible] electric generators, laundry, refrigerators, [illegible] Plans will be ready in two months.

NEW ORLEANS, LA[illegible] ds are asked until July 22 for construct[illegible] mplete of three-story fireproof brick [illegible] for the Touro Infirmary & Hebrew [illegible] ent Association. Favrot & Livaudais, Lt[illegible] hs., 839 Gravier St., New Orleans. (A[illegible] d, Engineering News.)

MEMPHIS, TENN.—[illegible] Commissioners will soon select an arch[illegible] and locate a site for proposed new cour[illegible] Details will be developed in the ne[illegible] ture. Levi Joy, Secy.

SULLIVAN, IND.—O. [illegible] ing, M. R. McMahon, of Wenatchee; J[illegible] Rogers, of Sullivan, Ind.; J. O. Pate, [illegible] W. Beasley and G. N. Meredith, of Sew[illegible] City, Ind., have organized a company to b[illegible] a sanitarium at Snoop Lake, Douglas Co[illegible] Building will contain 50 rooms and cost [illegible].

AKRON, O.—J. Milton [illegible], Arch., Cuyahoga Bldg., Cleveland, ha[illegible] submitted plans and specifications for approval by County Commissioners. Bids will probably be advertised for at once. Cost, $[illegible].

HUNTINGTON, IND.—The First Christian Church will receive bids until June 24 for construction of a new church. Est. cost, $25,000.

INDIANAPOLIS, IND.—Bids will be received at office of the Governor until June 29, 2 p. m., for the erection of seven cottages, school building, power house, dairy barn, horse barn and refrigeration plant for the Indiana Industrial School for Girls. Clarence Martindale, Arch., Indiana Trust Bldg., Indianapolis.

MOROCCO, IND.—The Lawler Bros. are asking bids for construction of residences, barns, warehouses, sheds and feeding pens. It is said $250,000 will be expended in these buildings.

MEROM, IND.—Plans are being made for remodeling and improving Union Christian College building at Merom. Bids will be in order soon.

BELLEVILLE, ILL.—Bids will be received by Gustav H. Beineke, Cy. Clk., until June 19, for construction of a tile floor in city hall. Lee Harper, Cy. Engr.

LACROSSE, WIS.—We are informed that city will erect a 2-story and basement high-school building, 128 × 212 ft., of brick and stone construction. Estimated cost, $125,000. There will be required two 72 in. × 18 ft. boilers; two 60-KW. units with direct-connected engines, blast system of heating, etc. Joseph C. Llewellyn, 1518 First National Bank Building, Chicago, is Arch.

PERHAM, MINN.—Bids are asked by Building Committee, St. Henry's Congregation, until June 26, for the erection of a brick church for St. Henry's congregation.

RHINELANDER, MINN.—Bids are asked by Board of Education until June 21, 2 p. m., for the erection of a ward school. Parkinson & Dockendorff, Archs., La Crosse, Wis. Gust Swedberg, Clk.

ARGYLE, MINN.—Bids are asked by Board of Education until June 20, 5 p. m., for the erection of a high school. Donald Robertson, Secy.

WILMAR, MINN.—Bids will be received by T. O. Gilbert, Wilmar, until June 21, 10 a. m., for the erection of a Lutheran Orphans' Home near Wilmar. Thori, Alban & Fisher, Archs., St. Paul, Minn.

LINCOLN, NEB.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until July 11, for the installation of a conduit and electric wiring system for the U. S. court-house and post-office, Lincoln.

DEADWOOD, S. DAK.—Bids are asked by Jas. Knox Taylor, Supv. Arch., Washington, D. C., until July 12, for the low pressure steam heating apparatus complete in place for U. S. post-office and court-house building at Deadwood.

ST. LOUIS, MO.—The E. L. Magner Construction Co. will erect a three-story apartment house at a cost of $37,000.

SAN ANGELO, TEX.—P. P. Beddell, of Dallas, Tex., and associates will erect a $75,000 hotel in this city.

ROSWELL, N. MEX.—A $20,000 Sisters' Hospital will be erected here. The Roswell Commercial Club is interested.

SPOKANE, WASH.—Albert Held, Arch., Hyde Block, Spokane, is preparing plans for the Spokane Terminal Co.'s buildings, to be erected at Main and Lincoln Sts. Cost, $75,000.

PORTLAND, ORE.—Lewis & Lewis, Arch., 307 Madison St., Portland, will have plans ready for contractors June 25 for erecting the Tull & Gibbs building at Seventh and Morrison Sts. Cost, $80,000.

LOS ANGELES, CAL.—Bids are asked by Board of Trustees State Normal School until June 27 for furnishing material for and doing work of installation of heating and ventilating plant at State Normal School. J. F. Millspaugh, Secy.

BOISE, IDAHO.—It is expected that the Boise barracks will be rebuilt at once. Maj. R. B. Turner has received instructions to close the purchase of the water-works sys-

tem, which has been a matter in the way of rebuilding for some time. The department has appropriated $500,000 for the work.

CALGARY, N. W. T.—Contract for erecting ho[illegible] for G. S. Skinner has been awarded to M[illegible]IL & BROWN. Brick, 5 stories, 100 x [illegible] ft. Lawson & O'Gara, Archs. Cost, $50,00[illegible]

WAHPETON, N. D.—Bids are asked by Department of Interior, Office of Indian Affairs, Washington, D. C., until July 18, for furnishing and delivering necessary materials and labor required to construct and complete two dormitories, school house, mess hall, laundry and warehouse, all of brick, with plumbing, steam heat and electric light, also water, sewer and electric lighting systems, at site of new school, near Wahpeton. C. F. Larrabee, Acting Comr.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NEW MARKET, N. H.—Contract for extension of town water system, bids opened May 31, has been let to JOHN WALKER, New Market, for $1,630.

VERGENNES, VT.—We are informed that Special Committee on Water Supply has secured an extension of time in which to investigate means for a new supply, and will report at a special city meeting to be held soon. H. Louis Miner, Water Comr.

OXFORD, MASS.—We are informed that Oxford Water Co., A. M. Chaffee, Pres., is not at the present time ready to contract for water; company is not as yet fully organized.

WILLIAMSTOWN, MASS.—This town is contemplating extending its water-works.

GREAT BARRINGTON, MASS.—We are informed that matter of water extensions for Great Barrington Fire District is not yet settled. A meeting has been called for June 15 to hear report of committee and to act on same. A new reservoir and a new main is recommended as is an improvement of the present supply. New supplies have also been discussed. C. N. Gilbert, Chn. Com., is official in charge and E. A. Ellsworth, Holyoke, Mass., is Des. Engr. According to press reports, the cost of the improvements is estimated at $69,795, divided up as follows: New reservoir, $46,040; intake reservoir, $3,197; repairing Berkshire Heights reservoir, $5,255; new supply main to village, $7,350; supply main from upper intake to Berkshire Heights' system, $3,200; supply main in Taconic Ave., $1,500; engineering and supervision, $3,253.

SOUTHBRIDGE, MASS.—We are informed that contract for building dam for new reservoir of the South Bridge Water Supply Co., Geo. K. Drum, Supt., was let to BLANCHARD BROS., Whitinsville, Mass. Bids were received June 6. Moore & Smith, Worcester, Mass., are Des. Engrs.

SCOTIA, N. Y.—Village Board on June 5 is stated to have awarded contract for laying water mains to JOSEPH H. CLEMENTS, Schenectady, N. Y., for $7,765.

NEWARK, N. J.—Contract for 585 tons 4-in. to 8-in., and 620 tons 10-in. to 16-in. cast iron pipe and 75,000 lbs. special castings has been let to the WARREN FOUNDRY & MACHINE CO., 170 Broadway, New York, for $35,732. Bids were received June 8 by the Water Department, Morris R. Sherred, Engr. and Supt.

HARRISBURG, PA.—City Water Department has awarded contracts for supplies for ensuing year as follows: Castings, W. O. HICKOK CO.; ferrules, J. N. DEETER; pipe, R. D. WOOD & CO.; valves, RENSSELAER MFG. CO.; fire hydrants, EDDY VALVE CO.

LEHIGHTON, PA.—We are informed that plans and specifications were to be completed at once for proposed new water-works of the private company which will supply towns of Emerald, Slatedale and Williamstown. The estimated cost of the work is $65,000 and supply is to be obtained from Blue Mountain. Two reservoirs, iron pipe, hydrants, valves and accessories will be installed. Warren E. Cressmar, Sellersville, Pa., is Des. Engr., and Ira E. Seidle, Lehighton, is official in charge.

NORFOLK, VA.—See under Sewerage.

ROANOKE, VA.—Roanoke Gas & Water Co. has awarded contract for 3,000,000 gallon storage basin to B. R. McGHEE & CO.

BISHOPVILLE, S. C.—Town Water Commissioners have awarded contract for boring artesian well to supply this town to the HUGHES SPECIALTY WELL DIGGING CO., Charleston, S. C. As was stated in our last week's issue bids for the construction of water-works are being asked until July 17.

VIDALIA, LA.—Bids are asked by Mayor John S. Boatner, Jr., until 12 noon, June 20, for the following: One duplex pump; one elevated water tower; triplex pump and electric motor; 6,600 ft. 6-in. cast iron water pipe. M. Griffin O'Neil, Engr., Dallas, Tex.

CLEVELAND, O.—Bids are asked by A. R. Callow, Secy. Bd. Pub. Serv., until 12 noon, June 20, for furnishing f. o. b. cars at Kirtland St. pumping station, engines and generators.

BELLAIRE, O.—We are informed that Board Public Service, J. A. Jackson, Clk., is receiving bids until noon, June 20, for construction of mechanical filtration system.

MOUNT HEALTHY, O.—We are informed that preliminary work is under way looking to a bond issue for building new water-works, and that proposition will be submitted to a vote in the course of six or eight weeks. Alexis Brown is Mayor.

FLORA, IND.—We are informed that an election will be held July 11 to determine regarding the construction of municipal water-works. Proposed supply is to be obtained from wells, and estimated cost of works is $12,000. Rober Toole is Clk.

MT. OLIVE, ILL.—Bids are asked by Theodore H. Koch, Village Pres., until June 30, for constructing water-works for this village. Young, Fardwell & Hooke, Engrs., 429 Frisco Bldg., St. Louis, Mo. (Advertised, Engineering News.)

WEST ALLIS, WIS.—We are informed that $60,000 of water bonds have been sold, and it is expected that the work will be taken up soon. H. D. Hill is Village Clk.

LAHARPE, KAN.—Bids are asked by F. E. Wood, Cy. Clk., until 8 p. m., June 15, for furnishing material and constructing extensions to a system of water-works, separate bids being entertained as follows: For furnishing 120 tons of cast iron pipe and specials; for furnishing and installing gas engine and pump; for building stone dam and power house; for installing pipe system. Burns & McDonnell, Engrs., Kansas City, Mo.

GLENDIVE, MONT.—The bids received June 1 by the U. S. Reclamation Service for the construction of main canal in connection with the Fort Buford Project are given under Contract Prices.

LIBERTY, MO.—Bids are asked by the Board of Public Works, R. J. Bruce, Clk., until June 22, for the construction of a system of water-works.

KANSAS CITY, MO.—Bids are asked by Board Public Works, Everett Elliott, Secy., until June 30, for annual supply of cast iron pipe and special castings. (Advertised, Engineering News.)

FULTON, MO.—Contract for installing water system at Nevada Hospital has been let to GRAY & SUTTER, plumbers, Fulton, for about $12,000.

IDAHO SPRINGS, COLO.—Bids are asked by Chas. Brandstetter, Cy. Clk., until July 6, for the purchase of $75,000 bond issue, proceeds of which are to be used for extending city water-works.

KETTLE FALLS, WASH.—We are informed that no contracts have been let or bids called for proposed irrigation canal of Fruitland Irrigation Co. Supply is to be from Colville River, 28 miles distant, and estimated cost is $100,000. Wood pipes will be required in places, and these will be either shipped complete or built on the ground. W. C. Stayt, Kettle Falls, Wash., Western Mgr., of the company, is Des., Engr., and official in charge.

COTTAGE GROVE, ORE.—We are informed that about two miles of 10-in. wood pipe will be laid, and about two miles of 4, 5 and 6-in. steel pipe taken up and relaid for laterals. A reservoir of 1,500,000 gallons is also contemplated. Estimated cost of proposed improvements is $15,000. L. Taylor is Des. Engr., and Cy. Engr., is official in charge. J. E. Young is Cy. Recdr.

SOLDIERS' HOME, CAL.—Bids are asked by T. J. Cochrane, Treas., Pacific Branch, N. H. D. V. S., until noon, June 26, for installation of one fire pump, one feed pump and one ice-making tank.

LOS ANGELES, CAL.—Bids were received June 5 by J. B. Lippincott, Supervising Engr., U. S. Reclamation Service for construction of the Laguna Dam and sluiceways for the Yuma Project, the following being the total bids received for the work: J. G. White & Co., 43 Exchange Pl., New York, $797,650; Burrell Construction Co., Oakland, Cal., $799,550; P. McDonnell, Duluth, Minn., $823,660; City Street Improvement Co., 512 Mill Bldg., San Francisco, Cal., $829,519; Cotton Bros. & Co., Oakland, Cal., $847,675; R. W. Faris, Faris-Kesl Contracting Co., Boise, Idaho, $862,000; Pacific Construction Co., San Francisco, Cal., $866,560; N. S. Sherman Machinery Co., Oklahoma City, Okla., $1,030,117. Bids were called for the construction of the Laguna Dam and sluiceways for the Yuma Project on March 15 last. This was the time of extensive washouts on the railroads and delays in the mails. Five bids in this manner failed to reach the office of the supervising engineer in Los Angeles in time for opening, and the attorney general ruled that these belated bids could not be considered. The Secretary of the Interior thereupon decided to readvertise for bids for June 5, 1905. The bid of J. G. White & Co., New York, is $37,000 lower than the lowest regular bid received on March 15 last. The itemized bids received March 15 were given under Contract prices in our issue of April 6.

PROVO, UTAH.—We are informed that bids have not yet been called for extension of city water-works. It is proposed to have a special election to vote on $100,000 bond issue, proceeds of which are to be used for a municipal electric light plant and for improving water-works. Wm. M. Roylance is Mayor.

NEW GLASGOW, N. S.—We are informed that at recent election ratepayers voted against the issue of $40,000 of bonds. This amount was to have been used for additional pump and slow sand filters. Matter will probably be taken up again next year. W. M. Scott is Town Engr.

MEAFORD, ONT.—Bids are asked by J. G. Clarke, Chn. W.-W. Com., until June 26, for erection of 40 ft. steel tower and steel storage tank with pipes, valves, etc. Bids are wanted on tank of 50,000 gallons capacity and on one of 80,000 gallons capacity.

WINNIPEG, MAN.—The time for receiving bids for supply of water pipe and specials for high pressure fire service has been extended from June 19 to June 23, as is stated in our advertising columns. Specifications may be seen at the office of Engineering News, 220 Broadway, New York. Specifications for construction of concrete reservoir, bids for which are being asked until July 3, as advertised in Engineering News, may also be seen at the New York office of that publication.

SEWERAGE.

EAST BOSTON, MASS.—Contract for sewerage works in Bennington St. has been warded to D. F. O'CONNELL CO., 6 Beacon St., Boston, for $3,555.

NORTH ADAMS, MASS.—City Council has authorized the borrowing of $5,000 for sewer construction. Harry E. Blake is Cy. Engr.

NEW BRITAIN, CONN.—Bids for considerable sewer work here will be advertised for at once. Wm. H. Caldwell, Engr., 213 Main St., New Britain. Previously noted.

BRIDGEPORT, CONN.—Bids are asked by Patrick Kennedy, Dir. Pub. Wks., until July 1 for construction of about 1,000 ft. of 48-in. round brick sewer in William St. William W. Starr, Cy. Surv. (Advertised, Engineering News.)

TORRINGTON, CONN.—Bids are asked until June 20 for construction of about 1½ miles 8-in. to 20-in. sewers. Wm. G. Smith, Engr., Waterbury, Conn.; Bernard E. Higgins, Boro. Clk. Specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

BINGHAMTON, N. Y.—Bids are asked by D. C. Herricks, Cy. Clk., until June 27 for construction of a sewer in New St., Vine St., Curran Ave. and Duane St. (Advertised, Engineering News.)

SCOTIA, N. Y.—Bids are asked by Village Trustees, James A. Hoyt, Jr., Village Clk., until June 22 for labor and materials for constructing sewers for this village. L. B. Sebring, Engr., Schenectady, N. Y. (Advertised, Engineering News.)

UTICA, N. Y.—Bids are asked by the Mayor until July 21 for construction of an intercepting sewer of about 5,000 ft. in length. J. A. Cantwell, Cy. Clk. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro of Bronx, until June 20 for construction of sewers and appurtenances in portions of Vyse Ave. and Jefferson St.

BROOKLYN, N. Y.—The Brooklyn Grade Crossing Commission has awarded contract for building sewer in Newkirk Ave. and Ave. F. for draining part of depressed section of Brighton Beach division, to HENRY DUMARY, Division and Kent Aves., Brooklyn, for $42,150.

UTICA, N. Y.—Plans for outlet sewer have been approved by Common Council, and City Clerk directed to advertise for bids to build it. Est. cost, $150,000.

PATERSON, N. J.—H. J. Harder, Cy. Engr., has announced the following as the lowest bidders for various sewers, for which bids were opened June 2: Ninth and Madison Aves., F. P. Murray, 1243 Madison Ave., Paterson; 11th Ave. and Dakota St., Frank Puglia; Beckwith Ave., McShane & Conlin.

BEVERLY, N. J.—A sewer system is being agitated in Beverly. Est. cost, $32,500.

PLAINFIELD, N. J.—The following bids were received June 5 by Common Council for enlarging sewage disposal works: Richards & Gaston, New York, $52,047; Schimmel & Heil, Easton, Pa., $52,612, and Jas. Maybury & Son, Passaic, N. J., $53,213; Jacques & De Rosa, Elizabeth, N. J., $53,391; Miller-Collins Co., New York, $55,581; Hillpott & McCabe, Jersey, City, $56,054; Bunting Const. Co., Long Island City (L. I.), N. Y., $57,501; Godwin Const. Co., New York, $57,570; C. L. & G. A. McKeag, New Brunswick, N. J., $57,968; Crouse Const. Co., Perth Amboy, N. J., $58,993; Neff Co., New York, $60,833; Finch-Anderson Co., Glens Falls, N. Y., $61,572; Cement Paving & Const. Co., Jersey City, $61,840; Middlesex Contracting Co., New Brunswick, $62,482; Stacy B. Opdyke, Jr., Dunellen, N. J., $64,110; Frank Pidgeon, Saugerties, N. Y., $65,112; Bell Engineering & Const. Co., New York, $65,655; Gallery & Murphy, Wilmington, Del., $67,045; D. Cuozzo, New York, $66,230; Manufacturers Contracting Co., Wilmington, Del., $71,263. Andrew J. Gavett, Cy. Surv.; Jos. O. Osgood, Consult. Engr., Plainfield. Itemized bids are given under Contract Prices.

MONTROSE, PA.—An ordinance providing for the extension of sewer system of Montrose Borough was passed by Town Council. Jas. P. Taylor, Pres.

PITTSBURG, PA.—The Schenley Farms Co. has let contract to MORAN-PHELAN CO., Ferguson Block, Pittsburg, for grading and sewering old Schenley farm in Oakland. The contract calls for 19,000 lin. ft. of sewer and the excavation of 350,000 cu. yds. of earth.

GETTYSBURG, PA.—Bids are asked by the Town, A. B. Plank, Chn. Sewer Com., until July 3 for construction of complete sewer system, consisting of about nine miles of pipe sewer. Mason D. Pratt, Engr., Harrisburg, Pa. (Advertised, Engineering News.)

DARLINGTON, S. C.—Contract for constructing 20 miles of sewer system was awarded by city to EBAUGH & EBAUGH, of Greenville, S. C. J. L. Ludlow is Engr., Winston, N. C.

MONTICELLO, GA.—The city has voted to issue bonds for a sewerage system. Address the Mayor.

QUITMAN, GA.—Bids are asked by the mayor and board of aldermen until June 28 for labor and material for construction of sewer system, consisting of about eight miles of 8-in. to 15-in. pipe sewers. H. S. Jaudon, Engr.; M. C. Wade, Cy. Clk. (Advertised, Engineering News.)

NORFOLK, VA.—Bids are asked by Jamestown Exposition Co., C. Brooks Johnston, Chn., until June 24 for construction of sewers and water supply system and surface and ground water drainage system at grounds of the company at Sewells Point. John Kevan Peebles, Arch., Norfolk, Va. (Advertised, Engineering News.

ROANOKE, VA.—The city contemplates issuing from $200,000 to $400,000 bonds this year for street and sewer improvements. J. H. Wingate, Cy. Engr.

NEWPORT, KY.—City will issue $35,000 of bonds for constructing additional sewerage system. J. B. Morlidge is Cy. Engr.

COLUMBUS, O.—A. F. HELM, of Cleveland, O., secured contract for the construction of South Side sanitary sewer. His bid was $12,269.

AKRON, O.—McAlonan Bros. were the lowest bidders, at $5,493, for construction of South and Brook Sts. storm water sewer.

LONDON, O.—Bids are asked until June 26 for construction of sanitary sewer system and sewage disposal works. John W. Byers, Village Clk. (Advertised, Engineering News.)

RAVENNA, O.—Bids are asked by S. J. Post, Village Clk., until June 24 for materials and construction of sanitary sewers, septic tanks and filter beds. W. E. Myers Engr. (Advertised, Engineering News.)

TULSA, IND.—Bids are asked by Mayor and City Council until June 20, 2 p. m., for the purchase of $30,000 sanitary sewer bonds. C. L. Reeder, Mayor.

PONTIAC, MICH.—J. J. GRANVILLE & SONS, of Saginaw, Mich., have been awarded contract for new sewer here.

ROCKFORD, ILL.—Bids were received June 6 by Board Local Improvements, Edwin Main, Cy. Engr., for constructing sewers, the contracts being let as follows: S. VANDEWALKER, Belvidere, Ill., Third St., $882; E. S. GREGORY, Rockford, Sixth St., $410; GEO. I. MYRICK, 2048 Morgan Ave., Morgan Park, Ill., Ninth Ave., Twelfth St., Oakwood Ave. and South Main St.; M. M. KINNEAR, Rockford, Seventh St. and Forest Ave.

CHICAGO, ILL.—Bids will be received until June 20 for construction of Sec. T of intercepting sewer, to cost about $125,000. Wm. S. MacHarg, Consult. Engr., Dept. Pub. Wks.

WEST ALLIS, WIS.—The village has sold $15,000 sewer bonds and will begin the work as soon as possible. H. D. Hill, Vil. Clk.

ST. PAUL, MINN.—JOHN LIND was awarded contract for storm water sewer on St. Albans and Dale Sts., his bid being $2,360.

BRAINERD, MINN.—Bids are asked by F. E. Low, Cy. Clk., until July 3 for construction of lateral sewers in Dist. No. 1.

ABILENE, KAN.—Bids are asked by M. R. Jolly, Cy. Clk., until July 7, for construction of main sewer No. 3 and lateral sewers Nos. 16, 17, 18, 20 and 20a. Burns & McDonnell, Consult. Engrs., Kansas City, Mo. (Advertised, Engineering News.)

BISMARCK, N. DAK.—The contract for sewer system was awarded to JAMES KENNEDY, of Fargo, N. Dak., for $52,525.

OZARK, MO.—City has voted proposed bond issue for the purchase of water-works and sewerage system.

ST. CHARLES, MO.—City Council will receive bids until July 1 for furnishing the city with a complete set of plans and specifications for a sanitary sewer system. H. C. Dallmeyer, Chn. of Com. in charge. Carr Edwards, Cy. Engr.

PINE BLUFF, ARK.—Commissioners of Sewer District No. 8 have let to ROBINSON PLUMBING CO. the contract for constructing 3¼ miles of sewer, at $12,105.

WACO, TEX.—Bids will be received by R. B. Dickey, Cy. Secy., until June 22 for furnishing all material, tools and labor, and constructing a storm water sewer on 18th St.

FORT WORTH, TEX.—Bids will be advertised about Aug. 1 for a sewerage system, estimated to cost $70,000. John B. Hawley, Cy. Engr.

DENVER, COLO.—It is stated that the contract for constructing Highlands special sanitary sewer was awarded by Board Public Works to GAFFEY & KEEFE CONSTRUCTION CO., Exchange Bldg., Denver, for $54,609.

FORT WALLA WALLA, WASH.—Bids are asked until June 23, 5 p. m., for furnishing material and labor required in the installation of 6-in. sewer for new barracks at Fort Walla Walla. Capt. Noble H. Creager, Q. M., U. S. A.

SEATTLE, WASH.—Bids will be received by Board Public Works until June 24 for construction of sewers on Second Ave, West and adjoining streets. Est. cost, $36,400. C. B. Bagley, Secy.; R. H. Thomson, Cy. Engr.

Ordinance has been passed for the construction of Westlake Ave. sewer. Est. cost, $11,000.

ABERDEEN, WASH.—F. A. KEASAL, of Tacoma, Wash., is the lowest bidder for constructing a portion of city sewer system, and will be awarded the contract. He will build all the sewers in Dist. A, for $23,944.

NEW GLASGOW, N. S.—We are informed that the town will extend its present sewer system about 1,000 ft. W. M. Scott, Town Engr.

GANANOQUE, ONT.—The by-law to raise $35,000 to complete the water-works and sewerage systems will be submitted to ratepayers July 6.

GARBAGE DISPOSAL.

HAVERHILL, MASS.—City has decided to go back to contract system for collection of garbage, and the street committee will soon ask bids for the work. Robt. R. Evans is Cy. Engr.

ORANGE, N. J.—Contract for scavenger work for three years has been awarded to FRANK A. MALONEY, the present scavenger, at $11,000 per year.

McCONNELLSBURG, PA.—Present garbage contract expires in September, and Chairman Mathis, of the Council Sanitary Com., has been giving out specifications for a new contract.

McKEESPORT, PA.—Auld Brothers Construction Co. are stated to have made proposition to take charge of the city garbage. The company proposes to rent the present plant and to build an additional furnace.

DETROIT, MICH.—A municipal committee, of which Health Officer Kiefer is a member, is reported to have decided to recommend that the city's contract with the Detroit Sanitary Works for the collection of garbage be terminated June 30, 1906. The contract was for 10 years, and only four years have expired. The company receives $51,000 a year.

KANSAS CITY, KAN.—An ordinance granting a franchise for the collection of garbage to George McClelland and William Gamble has been before the Council.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids are asked until June 19 for construction of roads, gutters, walks and drains at Fort Preble, Me. Capt. A. W. Yates, Q. M., U. S. A., 187 Middle St., Portland.

SALEM, N. H.—Bids are asked by A. W. Deen, State Engr., Concord, until June 22 for grading and macadamizing of a road in Salem.

ADAMS, MASS.—The city contemplates considerable paving. Address Board of Selectmen.

BOSTON, MASS.—D. J. KILEY, 95 Milk St., Boston, was awarded contract for paving Blackstone St. Cost, $2,889.

BOSTON, MASS.—Contracts for paving Eliot and South Sts., were awarded to J. J. SULLIVAN, 95 Milk St. Total cost, $5,642.

MONSON, MASS.—WM. N. FLINT GRANITE CO. has been awarded contract for section of state highway in Monson. Cost, $2,135.

BECKET, MASS.—JOHN W. POLCARO, of Pittsfield, Mass., has been awarded contract for state highway here. Cost, $2,490.

PROVIDENCE, R. I.—Bids were opened by State Board Public Roads, June 7, for construction of state highways in various towns. LEWIS J. PIERCE BUILDING CO., Providence, was awarded contract for East Providence and Barrington Road, at $6,440; J. Overton Peckham, Middletown, R. I., was lowest bidder, for Middletown Road and Tiverton Road, at $4,692 and $2,163, respectively. For Narragansett Road, Amos D. Bridge, of Hazardville, Conn., was the lowest bidder, at $4,258. All bids on Warwick and Portsmouth Roads were rejected. Peter J. Larmon, Clk.

FAIRFIELD, CONN.—State Highway Commissioner Macdonald has awarded the town of Fairfield at 60 cts. per lin. ft., the contract to build 2,640 ft. of road.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of Bronx, until June 20 for repaving a portion of East 149th St., with asphalt on a concrete foundation.

ALBANY, N. Y.—The following bids were received June 5 by Board of Contract and Supply for paving Liberty St., 2,080 sq. yds., with granite block: Mulderry Bros., $2.23 per sq. yd.; M. F. Dollard, $2.28; Albany Material & Const. Co., $2.30; John Doyle, $2.23; Cameron & Hawn Realty Co., $2.45; Jos. F. Sheehan, $2.40; E. F. Dillon, $2.50; J. R. Morgan & Co., $2.70.

NEWARK, N. Y.—Bids are asked by Board of Trustees until June 26 for paving with Metropolitan block, Corning brick, or blocks or brick of equal quality. O. W. Harris, Village Clk. (Advertised, Engineering News.)

WELLSVILLE, N. Y.—Bids are asked by F. M. Leonard, Cy. Clk., until June 26 for about 13,600 sq. yds. brick paving and 7,000 lin. ft. curb. R. H. Lee, Engr. (Advertised, Engineering News.)

FORT TOTTEN, N. Y.—Bids are asked until June 23 for grading, macadam roads and cement sidewalks at Fort Totten. Geo. H. McManus, C. Q.-M. (Advertised, Engineering News.)

AMSTERDAM, N. Y.—Common Council, June 6, awarded contract for paving Chuctanunda St. to JOHN R. BAXTER, JR., of Utica, for $2,748. F. E. Crane, Cy. Engr.

[illegible]A, N. Y.—The Board of Aldermen, at a recent meeting, decided to pave streets in the business portion of village. Work will begin shortly.

SCHENECTADY, N. Y. — KELLAM & SHAFFER, of Schenectady, were awarded contracts June 8 for paving with asphalt on Jay and Elmer Sts., at $2.19 and $2.15 per sq. yd., respectively. Jas. C. McDonald, Cy. Clk.

RENNSELAER, N. Y.—City Clerk has been directed by Common Council to advertise for bids for the paving with brick or granite block Catherine St. and lower Broadway with brick or asphalt.

ALBANY, N. Y.—Bids are asked by Board of Contract and Supply until June 19, 3 p. m., for resurfacing of South Pine Ave. Isidore Wachsman, Clk.

WEST HOBOKEN, N. J.—Bids are asked by Town Council until June 21, 8 p. m., for paving of Lake St. with Belgian block pavement. John P. McMahon, Town Clk.

FLEMINGTON, N. J.—The Board of Freeholders rejected all bids for construction of macadamized road between Lambertville and Ringoes, a distance of six miles. The bids were all considered too high.

JERSEY CITY, N. J.—Bids are asked by Board of Chosen Freeholders until June 19, 4 p. m., for repairing damages and the protection from further damages of roadway of Weehawken Branch of Hudson Boulevard, caused by quarrying operations on lands of Woodcliff Land Co., North Bergen. John P. Noonan, Deputy Clk.

EMLENTON, PA.—Bids are asked by F. H. Krear, Boro. Secy., until July 5 for constructing about 9,275 sq. yds. of brick or asphalt paving on Main St. H. J. McKinley, Engr., Harrisburg, Pa. (Advertised, Engineering News.)

BELLEVUE, PA.—Bids are asked by J. M. Simeral, Clk., of Council, 69 Harrison Ave., until June 20, 6 p. m., for improving the following streets: Forest Ave, 2,100 cu. yds. grading, 5,500 lin. ft. stone curbing, 4,153 sq. yds. paving, 750 ft. 15-in. sewer, 3 sewer inlets; Bryant Ave., 7,000 cu. yds. grading, 3,430 lin. ft. stone curbing, 1,935 sq. yds. paving; Maple alley, 421 cu. yds. grading. Plans and specifications can be seen at office of John McBride, Boro. Engr., 46 Fidelity Bldg., Pittsburg, Pa.

FREDERICK, MD.—Contract for 5,877 sq. yds. paving with Fairmont vitrified fire clay block has been awarded to CORYELL CONSTRUCTION CO., Williamsport, Pa., for $15,068. Bids were received June 12 by Mayor Geo. E. Smith. Oscar B. Coblentz, Engr., Frederick.

ELLICOTT CITY, MD.—Bids are asked by County Commissioners until June 27 for improving highway between West Friendship and Sykesville, about 3,000 ft. of grading and macadamizing. Frank Parlett, Clk.

BALTIMORE, MD.—The following bids were received for paving of Clinton St.: Snyder & Padgett, $26,133; Nardin & Brennan, Maxwell brick, $23,666, and $24,758 for Porter brick.

WASHINGTON, D. C.—Bids are asked by Bureau of Supplies and Accounts, U. S. N., Washington, until June 20, 10 a. m., for building a macadam road within the grounds of Naval Hospital, Washington, D. C.

WASHINGTON, D. C.—Only one bid was received on May 31, by Capt. A. W. Butt, Depot Q. M., U. S. A., at Washington, for paving roadway between the Aqueduct bridge and Roslyn, Va., on the way to the Arlington National Cemetery, that of Cranford Paving Co., of Washington; $7,100 for second-hand Belgian blocks and $9,000 for new blocks. Capt. Butt has recommended that the bid for new material be accepted. The bid includes curbing and draining.

SALEM, VA.—City contemplates issuing bonds for street paving and improvements to water-works. J. N. Ambler is Cy. Engr.

NORFOLK, VA.—Bids are asked by Bureau of Supplies and Accounts, U. S. N., Washington, D. C., until June 20 for furnishing at navy yard, Norfolk, gravel, sand, brick and vitrified paving blocks. H. T. B. Harris, Paymaster General, U. S. N., Washington, D. C.

RALEIGH, N. C.—City will let contract for excavating and grading Saunders St., for which $3,000 is available. Address the Mayor.

HENDERSON, KY.—Bids will be received by Mayor or City Clerk until June 20, 5 p. m., for construction of an artificial stone pavement on Main St. J. H. Powell, Mayor.

LOUISVILLE, KY.—Board Public Works has decided to pave with asphalt Preston, Kentucky, Fourth and Walnut Sts.; with brick, Grayson, 18th, Jackson and Logan Sts. J. B. F. Breed is Cy. Engr.

CANTON, O.—All bids were rejected for paving East Fourth, East Third and Mahoning Sts., about 37,000 sq. yds., and new bids will be received until June 19. F. E. Myers, Cy. Civ. Engr.

CLEVELAND, O.—Bids will be received by A. R. Callow, Secy. Bd. Pub. Serv., until June 20 for grading, draining and otherwise improving a portion of Edgewater Park.

CLEVELAND, O.—City Council has authorized the Pennsylvania Railroad Co. to begin the elimination of its grade crossings in Cleveland. The improvement will cost more than $4,000, to be borne jointly by railroad and city. Wm. J. Carter is Cy. Engr.

NEW LEXINGTON, O.—Parido & Ward, of Lancaster, O., were the lowest bidders, at $14,000, for street paving here.

EAST LIVERPOOL, O.—Bids are asked by Trustees of Liverpool Township until June 22 for paving with brick on a portion of Calcutta Road. Approximate quantities, 9,543 sq. yds. paving, 10,736 lin. ft. broken stone, lateral support, 200 lin. ft. brick or concrete culvert and 2,100 lin. ft. 6-in. terra cotta pipe. Willis Davidson, Twp. Clk.

PORTSMOUTH, O.—Bids will be received by Board Public Service until June 23 for grading, curbing and paving of Lincoln and Sixth Sts. R. A. Bryan, Cy. Engr.

CINCINNATI, O.—The following bids were received by Board Public Service on June 8 for paving Ringgold St. with bitulithic: Hoosier Construction Co., $15,191; Kirchner Construction Co., $15,089; Central Bitulithic Paving Co., $15,102; Henker & Sullivan, $15,083; Warren Bros. Co., $15,188.

YOUNGSTOWN, O.—Bids are asked by Board Public Service until June 19 for construction of cement curb and gutter on Park Ave. G. T. Prosser, Clk.

CINCINNATI, O.—Ed. S. Gleason was the lowest bidder, at $9,201, for paving Conroy St., with brick. Bids were opened June 8.

Bids are asked by Board Public Service until June 19 for curbing, grading and paving with granite on Espanola St. and Wingate Alley; est. cost, $9,798. Geo. F. Holmes, Clk.

Bids are asked until July 5 for curbing, grading and paving Fifth St. with asphalt. Est. cost, $26,673.

BEDFORD, IND.—Bids will be received until June 20 for paving J St. with vitrified brick or block. W. M. Denniston, Cy. Clk.

NEWBERRY, MICH.—Bids are asked by W. H. Krempel, Vil. Clk., until June 19, 2 p. m., for building 1,000 yds., of cement crosswalks.

TRAVERSE CITY, MICH.—The city will pave 18,000 with brick and 12,000 yds. with bitulithic. W. R. Caldwell, Cy. Engr.

HOUGHTON, MICH.—Common Council has awarded contract for paving Isle Royale and Huron Sts. to BYERS & CO., at $6,713.

SULLIVAN, ILL.—The following bids were received for paving with brick on Hamilton St.: Wolfe, Maupin & Curdie, Alton, $33,889; Morrissey & Porter, Paris, $33,683; Harshman Bros., Sullivan, $33,266; J. H. Palmer, Danville, $32,849; N. C. Finley, Hoopeston, $32,841; C. D. Fry & Co., Newcastle, Ind., $31,789.

ANAMOSA, IA.—The city contemplates building a half mile of pavement this summer.

ST. PAUL, MINN.—The following contracts were let by Board Local Improvements May 29: Asphalt paving East Eighth St., BARBER ASPHALT PAVING CO., $11,218; curbing and improving Sherburne Ave., FIELDING & SHEPLEY, 216 West University Ave., $9,600.

OMAHA, NEB.—It is stated that bids will be received by Council until June 20 for paving on certain streets. Andrew Rosewater, Cy. Engr.

GREAT FALLS, MONT.—The city is considering the repaving of Central Ave. Est. cost, $40,000. D. L. Ellis is Cy. Engr.

ST. LOUIS, MO.—Board Local Improvements at its meeting May 29 decided on improving six streets and several alleys. Contracts will be let June 20.

HELENA, ARK.—Bids are asked until July 1 for construction of about 7,948 sq. yds. brick pavement on concrete foundation and for the excavation of about 2,500 cu. yds. of compact material. Francis H. Wright, Cy. Engr.; R. E. Chew, Jr., Chn. Com. Plans and specifications may be seen at the New York and Chicago offices of the Engineering News. (Advertised, Engineering News.)

TACOMA, WASH.—Contract for paving Jefferson Ave. with asphalt was awarded June 1 to the INDEPENDENT PAVING CO., of Tacoma, at $13,200, and 28 cts. per sq. yd. for maintenance. Frank L. Davis, Cy. Engr.

SEATTLE, WASH.—The following bids were received for laying concrete walks on East Columbia and other streets: Coast Concrete Co., $16,655; T. Ryan, $15,460; McADAM & CANNO, $13,841 (awarded contract); Sparger Concrete Co., $15,404; D. Dow & Co., $15,275; Fritch & Co., $16,465. R. H. Thompson is Cy. Engr.

DAYTON, WASH.—City Council has passed an ordinance providing for concrete sidewalks amounting to 50,000 sq. ft. Bids will be advertised for at once.

SEATTLE, WASH.—Board Public Works awarded contract to WM. STANLEY & CO., at $6,322, for grading Sturgis Road.

BELLINGHAM, WASH.—The Independent Asphalt Paving Co., of Tacoma, was the lowest bidder for paving Holly St., at $30,170 for asphalt and $30,825 for brick.

BALLARD, WASH.—City Council will grade Shilshole Ave. Bids will be called for at once. Address City Clerk.

TACOMA, WASH.—Bids will probably be called for in about 30 days for paving North Second and Third Sts., with asphalt, about 3,003 sq. yds.; est. cost, $9,459. Wm. Welsh, Comr. Pub. Wks.; Frank L. Davis, Cy. Engr.

SEATTLE, WASH.—Bids will be received by Board of Public Works until June 24 for construction of concrete walks on Boston and other streets; est. cost, $15,200. C. B. Bagley, Secy.; R. H. Thompson, Cy. Engr.

Ordinances have been passed for the improvement of Connecticut and other streets by grading and paving same with vitrified brick at an estimate cost of $16,400.

STELLARTON, N. S.—The WARREN PAVING CO., R. Low, Sydney, N. S., representative, is constructing about 2,000 lin. ft. of bitulithic sidewalk here.

ARNPRIOR, ONT.—Contract for 115,000 sq. ft. of concrete sidewalk here has been let to JAS. BOGUE, of Peterboro, for 9 cts. per ft. for sidewalks, 35 cts. for block crossings and 21 cts for drains.

NEWMARKET, ONT.—The Council will issue $5,000 of debentures for permanent street improvements.

VANCOUVER, B. C.—By-laws were carried to raise $350,000 for extension and improvement of streets and bridges, and $60,000 for resurfacing certain streets and lanes. Thos. H. Tracy is Cy. Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

NORWOOD, MASS.—It has been definitely decided by the New York, New Haven & Hartford R. R. Co. that it will expend $1,000,000 upon locomotive repair shops at Norwood. C. M. Ingersoll, Jr., is Ch. Engr., New Haven, Conn.

NEW YORK, N. Y.—Adolph Scholler, Arch., 31 Union Square, has plans in progress for a factory to be erected at 154-8 West 18th St., for C. Hillmuth, manufacturer of lithographers' inks, 46 East Houston St. Brick and terra-cotta. 8 stories, 75 × 125 ft. Boilers, engines, generators, motors, switchboards, electric wiring, etc. Cost, $200,000.

NEW YORK, N. Y.—Wm. Steiner Sons Co., 116 East 14th St., is taking competitive plans from architects for a new printing plant to be erected at Park Ave. and 166th St. Brick and steel, 6 stories, 100 × 145 ft. Boilers, generators, printing presses, shafting and belting, elevators, etc. Cost, $100,000.

NORWICH, N. Y.—It is stated that the Ontario & Western Railroad will expend $70,000 in the next 18 months on improvements to its plant in Norwich.

NEW YORK, N. Y.—General contract for factory building to be erected for J. J. Latteman, 485 West Broadway, has been awarded to FRANK GILBRETH, 34 West 26th St. Plumbing, heating, electric work and machinery not let. Building will cost $80,000 and the equipment $20,000. Wm. J. Dilthey, Arch., 1 Union Square. Previously noted.

BROOKLYN, N. Y.—Lump sum bids are being received by Bush Terminal Co., Coffee Exchange Bldg., New York, for labor on brick walls and reinforced concrete columns, floors, girders, etc., for a six-story and basement factory; 600 × 75 ft.; to be erected in Brooklyn. For further information address chief engineer, foot of 43d St., Brooklyn.

NEW YORK, N. Y.—It was erroneously stated in our issue of May 25 that the Fireproof Mfg. Co., 128 Broadway, would soon receive figures on equipment for a new factory. No equipment of any kind is needed by this company.

PASSAIC, N. J.—P. S. VAN KIRK CO., of Paterson, N. J., has been awarded general contract for an addition to factory of Consumers' Match Co., at Passaic. Engine, boilers, generators, and fire protection system.

WORTENDYKE, N. J.—T[illegible] plant of the Granite Linen Co. was destr[illegible] by fire June 8. Loss, $275,000.

NEWARK, N. J.—Alfred [illegible]ers, Arch., Newark, is taking figures on [illegible] plans for factory to be located at Re[illegible] Ave., for J. E. Mergott & Co. Brick, 4 [illegible] 56 × 200 ft., and a new boiler house, [illegible] 1 story, 35 × 60 ft.

NEWARK, N. J.—JAS. A[illegible]ALD, 228 Washington St., Newark, ha[illegible] awarded contract for mason work, an[illegible] RUSSELL ROBINSON CO., of Newark, [illegible]en awarded contract for carpenter wo[illegible] a $50,000 factory to be erected in Ne[illegible] for J. E. Mergott & Co. Alfred Wal[illegible] Arch., 22 Clinton St., Newark.

NORRISTOWN, PA.—Ballin[illegible] Perrot, Archs., 12th and Chestnut Sts[illegible]adelphia, write us that the contract [illegible]wer and boiler house and addition to fa[illegible] for Rambo & Regar has not yet been [illegible]ed.

CLAREMONT, VA.—The R[illegible] Hilliard Co. will erect a box and house[illegible]ng plant at this place. The company h[illegible] establisheda shingle mill near here.

SMITHTON, W. VA.—New [illegible] buildings will be ereced here by the [illegible] Brook Carbon Co., and Pennsboro Pla[illegible] Mill Co.

CONCORD, N. C.—It is repo[illegible]hat the Gibson Mfg. Co. contemplates [illegible] some additions to its plant.

SPRAY, N. C.—The German-A[illegible] Co. will erect its proposed mill build[illegible] Contracts have been awarded for cot[illegible] machinery and part of the other equip[illegible] Lockwood, Greene & Co., of Boston, [illegible] and Greenville, S. C., are Engrs. A [illegible] to 600 HP. steam engine and boilers w[illegible] purchased.

NEWTON, N. C.—The Newton Hosiery Mills Co. will erect an addition to its plant. D. H. Carpenter is the owner.

COLUMBIA, N. C.—The Columbia Car Standard Co., capital $100,000, has been chartered to manufacture and deal in car standards for all kinds of cars and to manufacture cars. Incorporators: T. H. Woodley, Sam L. Cameron, Mark Majette and Miles D. Liverman, all of Columbia.

SAVANNAH, GA.—The Armour Fertilizer Co., of Chicago, will erect a fertilizer factory on Hutchinson's Island. The plant will be of 80,000 tons annual capacity, and will cost about $125,000.

CORDELE, GA.—The Central Oil & Fertilizer Co. will erect a cotton-seed-oil mill and fertilizer factory. R. L. Wilson is Pres.

ALBANY, GA.—The lumber business heretofore conducted by J. S. Boggs has been incorporated with a capital of $25,000, as the Boggs & McNeill Co. The capacity of the plant will be doubled, additional dry kilns and planing mill machinery will be put in and the product of the mill will be pine lumber and cross-arms.

ACWORTH, GA.—Bids will be received until June 25 for building main building, boiler and engine rooms of the Acworth Cotton Mfg. Co. The bidders to furnish all material except brick and sand for brick work and gravel for concrete floors and roofing. A. F. Walker, Arch., Austell Bldg., Atlanta, Ga. Orlando Awtrey, Pres.

JACKSONVILLE, FLA.—Dozier & Gay Paint Co., recently incorporated with $50,000 cap. stock to manufacture paints, will erect a building 40 × 107 ft. John H. Gay is Pres.

PENSACOLA, FLA.—The Miami Sponge Mattress & Pillow Co., capital $15,000, has been chartered to manufacture mattresses and pillows from sponges. Lina Beecher is Pres.

HUNTSVILLE, ALA.—The Rowe Mfg. Co. will erect another knitting mill at a cost of $75,000.

WHITECASTLE, LA.—The Whitecastle Lumber & Shingle Co. will erect a stave, heading and cooperage plant here.

PLAQUEMINE, LA.—Plaquemine Consumers' Ice Co. want prices for 20-ton ice plant.

NEW ORLEANS, LA.—J. Martinez & Bros. will establish a large shoe factory here at a cost of from $75,000 to $100,000.

FRANKLIN, LA.—It is stated that the Kyle Lumber Co., Ltd., has leased property to parties who will erect a foundry and machine shop. The above company can give information.

MEMPHIS, TENN.—The Bohlen-Huse Ice Co. will erect $15,000 factory building, it is stated.

COLUMBUS, IND.—The Jany Mfg. Co. will establish a factory in Columbus. The company will expend $100,000.

MARION, IND.—The Beaty-Nickel Oil Co. has incorporated with a capital of $400,000. The company will build a large refinery near this city. Directors: Jerry Crarry, W. E. Rice and F. E. Hartzee.

MARION, IND.—The American Tin-plate Co. has ordered plans for a $50,000 addition and improvements to its plant in this city.

VINCENNES, IND.—It is announced that the D. W. Norton Artificial Stone Co. will ask for bids for the erection of an addition to its plants.

OTTAWA, ILL.—Contract for brewery, to consist of two buildings, for Ottawa Brewing Co. will be let June 15. Brick, iron and concrete, 3 and 4 stories, 65 × 120 ft. Richard Griesser, Arch., 1014 Schiller Bldg., Chicago, Ill.

MILWAUKEE, WIS.—A permit has been issued to the Abel & Bach Co., trunk manufacturers, to build a six-story factory at Tenth and Clybourn Sts., which will cost $150,000.

ST. LOUIS, MO.—The St. Louis Brewing Co. will erect a brewery building at a cost $10,800.

CLARENDON, ARK.—T. T. Bateman, J. Wheelock and J. D. Stephens are organizing a company to establish a six-ton ice-making plant.

LITTLE ROCK, ARK.—The A. Karcher candy f... y, loss $65,000, $15,000 on building and ...0,000 on machinery, etc. The building ...s owned by the J. R. Miller estate, the ...ndy factory by A. Karcher.

BENT... ARK.—Benton Canning Co., recently i... porated, will erect building, 20 × 40 ft., a... quip for a daily capacity of from 1,000 to ...0 cans of tomatoes. A. J. Elleman is ...

BENT... ARK.—The Benton County Casket Co. ... been incorporated with $10,000 cap. sto... to manufacture coffins. F. W. Brown ... Pres.

HOUS...N, TEX.—The Oriental Textile Mills w... be doubled in capacity. J. A. Radford is ... Cost, $100,000.

SHIN... TEX.—R. G. Flato will probably erect a ... storage plant here.

MADI...NVILLE, TEX.—A canning factory is to be ...tablished here by D. W. Ford and W. T. H...kins.

GUTH...E, OKLA.—The Guthrie Laundry Co. has ...reased its capital stock from $15,000 to ...000 and will build an addition, 10 × 33 ft. ... boiler room and make other improvements at a cost of $5,000. John M. Schmid... Engr.

EVERETT, WASH.—Contract for building new Everett brewery was let to R. B. McADAM ... $22,500. Heide & de Neuf, Archs. Plant w... recently bought by Herman Hoehstadter, who expects to spend $70,000 on it.

TACOMA, WASH.—Early in July work will begin on big mill for Dempsey Lumber Co.; it will be one of the largest on the coast. Machinery has been ordered.

FOREST GROVE, ORE.—The Ward Lumber Co. will erect a building, 30 × 80 ft. at their lumber yards and install a planing mill.

PORTLAND, ORE.—Contract for construction of new paper mill for the Willamette Pulp & Paper Co., has been let to the PACIFIC CONSTRUCTION CO. This company is represented here by F. M. Butler.

NAPA, CAL.—The Migliavacca Wine Co. has purchased a site at Fifth and Combs Sts., upon which a fireproof winery will be built immediately.

LOS ANGELES, CAL.—The Hauser Packing Co. has been granted permits for the erection of its plant on Ninth St. The plant will cover an area of about 18 acres and it will be built from plans of Paige & Co., Archs.

The permits provide for a mail building 167 × 98 ft. and four stories high; an abattoir 88 × 89 ft. four stories; an engine house, 50 × 90 ft. and stables 78 × 96 ft. All of the buildings will be of brick and steel. The plant complete will cost not less than $200,000.

MONTREAL, QUE.—The Walter M. Lowney Co. has awarded contract to FRANK B. GILBRETH, of New York and Boston, for building a six-story factory and warehouse in this city, to cost about $100,000.

CANNINGTON, ONT.—T. W. Nealon, of Philadelphia, Pa., has purchased a site near Cannington for a paper mill for the manufacture of peat-wood.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

FIRE HOSE.—Albany, N. Y.—Bids are asked by Board Contract and Supply until June 19 for 5,000 ft. of fire hose. Isidore Wachsman, Clk.

DREDGING.—Portland, Me.—Bids are asked until July 12 for dredging in Portland Harbor, Me. Major W. M. Black, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Boston, Mass.—Bids are asked until July 14 for dredging in Chelsea Creek, Boston Harbor, Mass. Col. W. S. Stanton, U. S. Engrs. (Advertised, Engineering News.)

BRICK CHIMNEY.—Pensacola, Fla.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until July 15 for 150 ft. radial brick chimney for the navy yard at Pensacola. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

COALING PLANT.—Pensacola, Fla.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until July 15 for coal handling and storage plant at Navy Yard, Pensacola, Fla.

DREDGING.—Ottawa, Ont.—Department of Public Works is stated to have awarded contract for dredging at Port Arthur Harbor and at Fort William to A. F. BOWMAN, Southampton, Ont.

BOILER.—Wilmington, N. C.—Bids are asked until July 10 for boiler for U. S. suction dredge Cape Fear. Capt. E. Eveleth Winslow, U. S. Engrs. (Advertised, Engineering News.)

UNDERGROUND CABLES. — Washington, D. C.—Bids are asked by Bureau Yards and Docks until July 1 for furnishing and installing certain underground cables at League Island Navy Yard.

DREDGING.—Newport, R. I.—Bids are asked until July 8 for dredging in entrance channel to Great Salt Pond, Block Island, R. I. Lt.-Col. J. H. Willard, U. S. Engrs. (Advertised, Engineering News.)

LEVEE WORK.—Vicksburg, Miss.—Bids are asked by Walter Davies, Pres., Chicot Levee Bd., care U. S. Engrs. Office, Vicksburg, until June 20, for about 65,000 cu. yds. levee work in Chicot County, Arkansas.

DREDGING.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until July 1, for dredging about 110,000 cu. yds. of material from Delaware River at Navy Yard, League Island, Pa.

DREDGING.—Cleveland, O.—Board Public Service, A. R. Callow, Secy., has rejected all bids received May 31 for dredging and improving Cuyahoga River. New bids will be received. About $80,000 is to be spent on the work.

DREDGING, ETC.—Jacksonville, Fla.—Bids are asked until July 12 for dredging and removal of rock in Withlacoochee River entrance, Florida. Major Francis R. Shunk, U. S. Engrs. (Advertised, Engineering News.)

READERS' WANTS

If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of ENGINEERING NEWS BUYERS' GUIDE will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. Do not fail to write our advertisers or us.

PAINT MAKING SUPPLIES.—Jacksonville, Fla.—Dozier & Gay Paint Co. is in the market.

ROCK DRILL.—Elkton, Va.—Hubert-Ravan is in the market for a rock drill for prospecting purposes.

BRICKMAKING MACHINERY.—Alvin, Tex.—The Alvin Dry Press Brick Co. is reported in the market.

HYDRAULIC RAM.—Evergreen, Ala.—John W. Stewart, of Evergreen, writes us that he is in the market for a small hydraulic ram.

ICE MAKING PLANT.—Plaquemine, La.—The Plaquemine Consumers Ice Co. is reported in the market for a 20-ton ice making plant.

AGRICULTURAL MACHINERY.—South Africa.—F. Norris, P. O. Box 271, Bulawayo, So. Africa, is reported in the market for agricultural machinery.

SCHOOL FURNITURE. — Mexico.—L. M. Rodriquez, 20 Depesa Ave., Vera Cruz, Mex., writes us that he wants the names of manufacturers of school furniture.

CEMENT.—Hopkinsville, Ky.—The Hopkinsville Water Co. is reported in the market, as is also Lockwood, Green & Co. of Boston, Mass., and Greeneville, S. C.

BOX-CAR LOADERS.—Pittsburg, Pa.—C. B. Dunmire, Engr. and Contractor, 903 Park Bldg., writes us that he wishes to secure information about box-car loaders, etc.

ROAD MACHINERY.—Augusta, Me.—R. D. Sargent, State Comr. of Highways, Augusta, writes us that he wants catalogues, etc., of road machinery for the files of his office.

DEEP WELL PUMP.—Aiken, S. C.—Harry Sudlow, Mgr., Carolina Light & Power Co., writes us that the company wants a deep well pump to discharge water from 8-in. well 550 ft. deep, with lift of 350 ft.

CONCRETE BRICK MAKING MACHINERY.—Petros, Tenn.—M. F. Burt, Engr., Big Binsby Coal & Coke Co., Box 224, writes us that he wishes to be put in touch with manufacturers of concrete brick making machinery.

LEAD SMELTING FURNACE.—Norton, Va.—A. Branham, Pres., A. C. & C. Co., Norton, writes us that his company is in the market for a small lead smelting or blasting furnace of about 8 tons capacity in 24 hours.

TRENCHING AND DITCHING MACHINES.—Los Angeles, Cal.—The Baker Iron Works, 932 Buena Vista St., writes us that it wants the names of manufacturers of trenching and ditching machines for small size ditches.

HARDWARE, AGRICULTURAL MACHINERY, CORDAGE, ETC.—Algeria.—S. Monclier, of Constantine, is understood as wanting to be placed in touch with manufacturers of the above, and also of makers of equipment for an oil refinery.

IRON AND STEEL CASTINGS.—New York.—A large contracting firm in New York wants to be placed in touch with a firm that will make finished iron and steel castings and small hydraulic specialties from drawings, and also for several small pieces of structural steel work. Address E. H. F., care Engineering News, N. Y.

FLANGED SEWER PIPE AND CREOSOTED WOOD TUBING.—Amherst, Mass.—Newton Wallace, 6 Phillips St., writes us that he wants the names of manufacturers of split and flanged sewer pipe, such as is used for laying heating pipes, and also of creosoted or otherwise prepared wood tubing for the same purpose.

BOILERS AND ENGINES.—It is stated that boilers and engines of various sizes are wanted by the Guthrie Laundry Co., of Guthrie, Okla. Ter.; R. L. Wilson, Pres. Oil & Fertilizer Co., Cordele, Ga.; W. T. Jones, of Sautuck, S. C.; the Jonesboro Yam Mill, of Jonesboro, Tenn., and Lockwood, Green & Co., Boston, Mass. and Greenville, S. C.

RAILWAY SUPPLIES AND EQUIPMENT.—It is reported that E. F. McRae, Secy. McRae & Dublin Ry., McRae, Ga.; the Tar River Lumber Co., Rocky Mt., N. C.; C. S. Shuford, Supt. Selma St. & Suburban Ry., Selma, Ala.; F. A. Pierce, Noble Bldg., Ardmore, Ind. Ter.; and L. Mouzon, of Georgetown, S. C., are in the market for all kinds of railway supplies, etc.

METAL WORK.—Philadelphia, Pa.—Bids are asked until July 7 for furnishing metal for foundation of elbow of Cross Ledge light station, Delaware Bay, N. J. Major J. C. Sanford, U. S. Engrs. (Advertised, Engineering News.)

JETTY EXTENSION.—Newport, R. I.—Bids are asked until July 8 for construction of extension of jetty at entrance to Great Salt Pond, Block Island, R. I. Lt.-Col. J. H. Willard, U. S. Engrs. (Advertised, Engineering News.)

PERFORATING MACHINES. — Washington, D. C.—Bids are asked by Wm. M. Meredith, Director Bureau of Engraving and Printing, until 2 p. m., June 21, for furnishing 30 pin perforating machines and 20 knife perforating machines.

SAND BINS.—Washington, D. C.—Bids are asked until June 29 for furnishing all materials except Portland cement, and constructing 29 concrete-steel sand bins for the Washington Aqueduct filtration plant. Lt.-Col. Smith S. Leach, U. S. Engrs.

MISCELLANEOUS SUPPLIES.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until July 10 for furnishing sanitary fixtures and roughing materials, water pipe and pipe fittings, lead pipe, solder, etc. (Advertised, Engineering News.)

CONDUIT.—Boston, Mass.—Contract for constructing Sec. 2 of Boston marginal conduit for Charles River Basin Comn., has been let to JAMES DRISCOLL & SON, Brookline, Mass., for $50,600. Itemized bids were given under Contract Prices in our issue of June 8.

LIGHT HOUSE.—Philadelphia, Pa.—Following bids were received May 31 by Major J. C. Sanford, U. S. Engrs., for constructing light house, etc., at Reedy Island: James A. Hirons, Dover, Del., $12,050; Thos. Little & Son, 1222 Clover St., Philadelphia, Pa., $19,500.

VALVES, STEAM WHISTLES, ETC.—Washington, D. C.—Bids are asked until July 17 for furnishing valves, steam whistles, water gages, steam gages, gage cocks, water columns, engine appliances, pipe and pipe fittings, ratchet drills, etc. (Advertised, Engineering News.)

PIER WORK.—Duluth, Minn.—Following bids were received June 5 by Mayor Chas. L. Potter, U. S. Engrs., for pier work at Port Wing, Wis.: Whitney Bros. Co., Superior, Wis., $14,100; A. G. Osman & Co., Duluth, Minn., $17,397; Powell & Mitchell, Marquette, Mich., $19,596.29.

DITCHWORK.—Prophetstown, Ill.—Bids are asked by Commissioners Union Special Drainage District, Geo. Seyller, Comr., until 2 p. m., June 29, for enlarging and constructing main ditch and one tributary, requiring removal of about 300,000 cu. yds. F. W. Sears, Engr., Prophetstown, Ill.

DYNAMITE, DOORS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until July 5 for furnishing at naval station, Guantanamo Bay, Cuba, a quantity of naval supplies as follows: Schedule 1, dynamite, blasting powder, etc.; schedule 2, tar paper, wire screening, door and windows and yellow pine.

DRAINAGE.—Muscatine, Ia.—We are informed that estimated cost of drainage of Muscatine Slough cannot be given until report is made. The work will be done for the drainage district, and a tax will be levied for the cost. James M. Healey, Route 7, Muscatine, Ia., is interested.

FIRE HOSE, ENGINES, ETC.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., 157 East 67th St., until 10:30 a. m., June 22, for furnishing and delivering 20,000 ft., 2½-in. fire hose, ten first-size hose wagons and four combination hook and ladder trucks and chemical engines.

TRACK ELEVATION.—Indianapolis, Ind.—Contract for excavating and building retaining walls for the separation of the street and steam railroad grades across Massachusetts Ave. and East 10th St. has been let to the MARION COUNTY CONSTRUCTION CO., Indianapolis, Ind., for about $60,000.

DRAINAGE DITCHES.—St. Paul, Minn.—We are informed that the State Drainage Commission, Geo. A. Ralph, Engr., Crookston, Minn., will expend $35,000 this season for state ditches. Contracts for three large ditches, in addition to those mentioned in our last week's issue, are to be let soon.

CONDUIT SYSTEM.—Montreal, Que.—G. M. GEST, the subway contractor of New York City and Cincinnati, O., has been awarded the contract for the construction of a complete underground conduit system for the Montreal Light, Heat & Power Co., at Montreal, Que. Over 1,000,000 ft. of conduit is to be used in the construction.

CONDUIT.—Chicago, Ill.—Bids are asked by Department of Public Works, Joseph M. Patterson, Comr., until July 7, for labor and material for construction of 16-ft. conduit (tunnel) in Lawrence Ave. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

DREDGE.—Galveston, Tex.—Following bids were received May 31 by Captain Edgar Jadwin, U. S. Engrs., for new dredge for Galveston Harbor: North American Dredging Co., San Francisco, $89,350; George W. Catt, New York, $98,000; Bowers Southern Dredging Co., Galveston, $102,500; Elliott Machinery Co., Baltimore, $111,400.

PIER WORK.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. of Docks, Pier A., Battery Pl., until 2 p. m., June 19, for furnishing labor and materials required for preparing for and building a new pier near the foot of Cuyler's Alley, East River; also for furnishing labor and materials required for preparing for and building a new pier near the foot of Old Slip, East River.

HOISTS, CRUSHERS.—Dayton, Nev.—We are informed that contracts for equipment of two shafts with electric hoists and for crushers for the mines at Como, Nev., of which Emmet D. Boyle is Mgr., has been let to HARRON, RICHARD & McCONE, San Francisco, Cal., and to JOSHUA HENDRY MACHINE WORKS, San Francisco. Est. cost of the improvements is $25,000.

SEA WALL.—Coronado, Cal.—We are informed that an election has not yet been held for issuing bonds for construction riprap sea wall along the ocean front for this city. The estimated cost of the work is $135,000, and it requires about 70,000 tons of rock and 45,000 yds. earth. The work will require complete quarry equipment, flat cars, locomotive, special unloading derrick and pile driver. Plans and estimates have been furnished by A. Erast.

MOTORS, LATHES, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until June 27, for furnishing quantity of naval supplies, among which are the following: Schedule 301, motors, generating sets, lathes, grinder, presses, etc.; Schedule 302, generators, pipe cutting machines, tools, steam engines, etc.; Schedule 303, incandescent lamps, wire, rheostats, Portland cement, etc.; Schedule 305, hydraulic jacks, forges, files, drills, pipe wrenches, etc. H. T. B. Harris, Paym.-Gen., U. S. A.

ELECTRIC CRANE.—Norfolk, Va.—Following bids were received June 10 by Bureau Yards and Docks, Washington, D. C., for 15-ton electric traveling crane for Navy Yard, Norfolk: Niles Bement Pond Co., 111 Broadway, New York, $4,685; Morgan Engineering Co., Alliance, Ohio, $4,895, $4,795; Manning, Maxwell & Moore, 85 Liberty St., New York, $4,868; The Case Mfg. Co., Curtis Ave., Columbus, O., $4,875; Whiting Foundry Equipment Co., 156th St. and Lathrop Ave., Chicago, Ill., $4,650; Pawling & Harnischfeger, Milwaukee, Wis., $5,000.

SPIKES, CEMENT, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until June 27 for furnishing a quantity of naval supplies, among which are the following: Schedule 283, spikes, metal fabric, nails, fir, piles, steel, steel plates, angles, rails, cement, etc.; Schedule 285, files, crane, motor radial drills, steel, pipe, etc.; schedule 286a, cranes; schedule 297, electrical wire, crossarms, Portland cement, yellow pine plank and piles, etc.; schedule 298, Portland cement, combined blower and exhauster and bending rolls. H. T. B. Harris, Paym.-Gen., U. S. N.

LEVEE WORK.—Vicksburg, Miss.—Bids are asked by W. H. Holloman, Pres., Tansas Basin Levee District, 108 West Crawford St., Vicksburg, until 12:30 p. m., June 20, for the following enlargement work in Arkansas: Vancluse to Sunnyside, Chicot County, 125,000 cu. yds.; Lake Port to Brooks Mill, Chicot County, 125,000 cu. yds. Bids will also be received at 12 noon, June 20, at above address, by Fifth Louisiana Levee District Commissioners for the following work in Louisiana: Cabin Teele Enlargement, Madison Parish, 35,000 cu. yds.; Evergreen-Bondurant, Tansas Parish, 20,000 cu. yds.; Cottage Home, Tansas Parish, 150,000 cu. yds.; Moro, Concordia Parish, 100,000 cu. yds.; Knox Point South, Concordia Parish, 100,000 cu. yds.

DAM.—Austin, Tex.—We are informed that no definite steps have been taken up to the present time towards rebuilding the dam across the river at this city. The committee is now in correspondence with several Eastern capitalists, endeavoring to interest them to the extent of furnishing the money to carry out the plan. It will take about $500,000 to rebuild it. There is about 900 ft. of the old dam still intact and material enough on the ground to complete the work. The dam will be rebuilt of granite and white limestone rock and this material can be had in abundance right on the site. The proposition that the city makes to the party furnishing the money is absolute security and is first-class investment. The committee can make a contract for them to furnish the city's power at so much a year or it can lease the dam to them for 25 years. The gross income from this plant operating steam is about $125,000 per annum. H. A. Wroe is a member of the committee.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

RAILROAD.—Alaska.—The Alaska & Pacific Railway & Telegraph Co. has been incorporated in Washington, with $2,000,000 capital, to build from a point opposite the northerly end of Martin's Island to the interior of Alaska. The incorporators are James Buzzard, J. C. Jeffrey and William Wray, and the principal offices are to be in Seattle, Wash.

RAILROAD.—Alaska.—The Valdez, Marshall Pass & Northern R. R. Co., has been incorporated in New Jersey to build a 413 mile railroad from Valdez, on Valdez Bay, to Eagle City on the Yukon River. The incorporators are F. D. Pierce, F. H. Huck, John D. Fearlake, and Kenneth Rose, all of New York, and Legrand Pouker of Jersey City. The New Jersey office is at No. 243 Washington St., Jersey City.

WHARF.—Cuba.—The Cuban Government has granted a concession, negotiated by the Compania del Puerto for improving the dock facilities of Havana. The undertaking in behalf of the Compania del Puerto involves the expenditure of $3,500,000 and includes the building under a 90-year privilege of a steel wharf 400 × 600 ft., equipped with a new rapid system of electrical hoisting apparatus and traveling machinery manufactured in Cleveland. The Compania del Puerto in return for the concession is to erect a new custom house to supersede the present building.

RAILROADS.—Philippines.—The Philippine Government has issued a circular calling for bids for the construction, maintenance and operation of railways in the Philippines. Bids will be received by the Bureau of Insular Affairs, War Department, Washington, D. C., until 9 a. m., Nov. 1; bids will also be received by the Philippine Commission, Manila, until 10 p. m. of the same date. Bids will be received only from individual citizens or copartnerships of the United States or of the Philippines, or from railroad corporations organized and existing under the laws of the United States or the Philippines. The lines to be constructed are as follows: From Dagupan to Laoag, 168 miles; from San Fabian, via Twin Peaks, to Baguio, with

the option of continuing to Trinidad, 55 miles; from Dagupan to Cabanatuan through the Carabello Pass and down the valley of the Cagayan River to Aparri, 260 miles; from Manila north to connect with these lines to Laoag, Benguet, and Aparri, 120 miles. From Manila to Batangas, 70 miles, with a line from Calamba to Santa Cruz, 25 miles, and another from Lapa or other convenient junction in Batangas to Lucena, 35 miles, making a total of 130 miles; from Pasacao to Ligao, with a line from Ligao to Tabaco and across the Island of Cacraray to the Harbor of Batan, and with the main line extending to Legaspi, on the Gulf of Albay, all approximately 100 miles; from Iloilo, in a northerly direction, to Capiz and Bataan, on the north coast of the Island of Panay, approximately 100 miles. On the Island of Cebu, from Cebu to Danao, and south from Cebu to Argao, with the option of a line to Carcar to Sibonga to the west coast, and thence along the coast between Dumanjug and Barilli, 95 miles in all. On the Island of Leyte, one line to Tacloban and Carigara; the other from Tacloban to Abuyog, 55 miles. On the Island of Samar, from Paranas, on the west coast to San Julian, 50 miles. Provision is made for the acquisition of the railroad from Manila to Dagupan, now in operation, if satisfactory arrangements with that road can be made. The term of the concessionary contract or grant is to be perpetual. All tracks of all the said lines of railway are to be of the gage of 3 ft. 6 ins., unless otherwise awarded. Bids in respect of the construction, equipment, maintenance, and operation of all said lines with the gage of 4 ft. 8½ ins., instead of 3 ft. 6 ins., will be received and considered. The grantee shall have the right to construct and operate telegraph, telephone, and electrical transmission lines over the right of way in the operation of said railways.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*SEWAGE DISPOSAL WORK.—Plainfield, N. J.—Following bids were received June 5 by the Common Council for enlarging the sewage disposal works of this city: (1) Richards & Gaston, New York; (2) Schimel & Heil, Easton, Pa.; (3) Jas. Mayberry & Son, Passaic, N. J.; (4) Jacob Jacques and Michael De Rosa, Elizabeth, N. J.; (5) Miller-Collins Co., New York; (6) Hillpott & McCabe, Jersey City; (7) Bunting Construction Co., Long Island City, N. Y.; (8) Goodwin Construction Co., New York; (9) C. L. & G. A. McKeag, New Brunswick, N. J.; (10) Crouse Construction Co., Perth Amboy, N. J.; (11) Neff Co., New York; (12) Finch-Anderson Co., Glens Falls, N. Y.; (13) Cement Paving & Construction Co., Jersey City, N. J.; (14) Middlesex Contracting Co., New Brunswick, N. J.; (15) Stacy B. Opdyke, Jr., Dunellen, N. J.; (16) Frank Pidgeon, Saugerties, N. Y.; (17) Bell Engineering & Construction Co., New York; (18) Gallery & Murphy, Wilmington, Del.; (19) bid not signed, check signed by D. Cuozzo, New York; (20) Manufacturers Contracting Co., Wilmington, Del.:

BRIDGE.—Dayton, O.—Following bids were received June 6 by Board Public Service, F. M. Turner, Cy. Engr., for constructing concrete steel bridge over Great Miami River at Washington St.: (1) bid for constructing concrete steel bridge complete excepting brick and cement paving and curbing; (2) bid for 2,868 sq. yds. brick paving; (3) bid for 10,396 sq. ft. cement paving; (4) bid for 1,434 lin. ft. cement curbing; (5) bid per lin. ft. for piles for foundation; (6) total bid:

two wire bracket telephone circuit to Station B, about 35 miles; (2) pole line and circuit from Station B through Stations C and D, about 35 miles; (3) installing telephone apparatus at Stations A and B; (4) installing apparatus at Stations B and C; (5) total; (6) time work will be completed; (7) telephones to be used: Elmer A. Hess, Lyons, Ia., (1) $217.08, (2) $207.19, (3) $45, (4) $45, (5) $14,-939, (6) 90 days, (7) Kellogg Switchboard & Supply Co.'s telephones; Wm. F. Jordan, Glendive, Mont., (1) $242, (2) $239, (3) $72, (4)

*IRRIGATION CANAL [illegible]D STRUCTURES.—Glendive, Mont.—[illegible] were received June 1 by U. S. Reclamati[illegible]rvice, H. N. Savage, Supervising Engr. [illegible] constructing irrigation canals and struct[illegible] for the Fort Buford Project. The bids o[illegible]avation were taken separately under fo[illegible]ivisions and also as a whole, the lowest [illegible]rs being as follows: Widell-Finley Co., [illegible]kato, Minn., Division 1, $163,367; Callah[illegible]os., Phelan & Shirley, Omaha, Neb., Di[illegible] 2, $159,90[illegible], Division 3, $140,919, Divisi[illegible]; for the excavation as a whole, [illegible]han Bros., Phelan & Shirley, at $521,9[illegible]re low bidders. The bids on the struc[illegible] were taken in the same manner as tho[illegible] the excavation, and the lowest bidders [illegible] as follows: Chas. Stabern, Helena, Mo[illegible] Division 1, $40,942, Division 2, $38,828, [illegible]on 3, $24,611; Deadwood Construction [illegible] Deadwood, S. Dak., $28,142; for all of th[illegible]ctures, the Deadwood Construction Co., [illegible]7,754, was low bidder. It is probable th[illegible] contracts will be awarded by divisio[illegible]. In addition, bids were taken on all of the[illegible]vation and all of the structures taken to[illegible], the bids received in this case being [illegible]llows: (1) Widell-Finley Co., (2) Foley [illegible]arson, St. Paul, Minn., (3) C. A. Warr[illegible] Co., San Francisco, Cal., (4) Jas. Forr[illegible] & Co., St. Paul, Minn.:

Bids received at Dayton, O., June 6, 1905, by Board Public Service, F. M. Turner, City Engr., for Constructing Concrete Steel Bridge Over Great Miami River at Washington St.

Name and Address.	(1)	(2)	(3)	(4)	(5)	(6)
Frank J. Cullen, Chicago, Ill.	$109,945	$1.60	.15	.50	.30	$116,810
Gabler & Dieter, Dayton, O.	116,238	1.55	.09	.45	.80	122,264
The Williams Bros. & Morse Co., Cleveland, O.	117,500	1.50	.15	.45	.45	124,007
Shailer & McCormick, Boston, Mass.	117,950	1.70	.11	.40	.65	224,543
H. E. Talbott & Co., Dayton, O.	123,000	2.25	.10	.50	.75	131.210
New Castle Bridge Co., Indianapolis, Ind.	126,000	1.70	.12	.38	.75	132,668
Hoglen & Kline, Dayton, O.	129,490	2.50	.12	.50	.60	138,625
J. P. Rusche, Grand Rapids, Mich	136,300	1.65	.10	.30	.30	142,502
Ed. Ryan, Springfield, O.	160,200	1.80	.12	.50	.50	167,327

*TIMBER.—Nashville, Tenn.—Following bids per M ft. B. M. were received June 5 by Major H. C. Newcomer, U. S. Engrs., for furnishing 453,406 ft. B. M. yellow pine timber: Chas. Este, Philadelphia, Pa., $43; G. Elias & Bro., Buffalo, N. Y., $36; J. K. Joice, 164 Dearborn St., Chicago, Ill., $32. All bids were recommended for rejection.

*DREDGING.—Wilmington, Del.—Following bids per cu. yd., place measurement, were received June 10 by Capt. C. A. F. Flagler, U. S. Engrs., for dredging in Murderkill River, Del.: Houston-Rickards Dredging Co., Philadelphia, Pa., 9⅞ cts.; Patrick Neary, Wilmington, Del., 19 cts.; Wilmington Dredging Co., Wilmington, Del., 12 cts.; Chas. P. Grim, Philadelphia, Pa., 13⅜ cts.

*ASPHALT PAVING.—Gloversville, N. Y.—Contract for paving First Ave. with asphalt block has been let to the HASTINGS PAVEMENT CO., 25 Broad St., New York, for $22,468. The street is to be paved for a length of 2,500 ft., and an average width of 28 ft. The thickness of the wearing coat is 3 ins., and the foundation is to consist of 4 ins. of concrete. The guarantee is for ten years. Bids for the work were received June 5 by M. V. B. Stetson, and the itemized bid of successful contractor was as follows: 1,500 cu. yds. extra earth excavation, 30 cts.; 9,100 sq. yds. paving, $2.27; 5,490 lin. ft. curb reset, 20 cts.; 1,200 ft. cinders under curb, 4 cts.; 50 cu. yds. extra concrete, $4. Morrell Vrooman, Cy. Engr.

*DREDGING.—Wilmington, Del.—Following bids per cu. yd., place measurement, were received June 5 by Capt. C. A. F. Flagler, U. S. Engrs., for dredging in Smyrna River, Del.: River & Harbor Improvement Co., 501 Merchant and Mariner Bldg., Philadelphia, 10 cts.; Edward F. Fonder Co., 1116 Land Title Bldg., Philadelphia, 12⅞ cts.; American Dredging Co., 510 Merchant and Mariner Bldg., Philadelphia, 11½ cts.; Wilmington Dredging Co., Pusey & Jones Bldg., Wilmington, Del., 11 7-10 cts.; John L. Grim, 515 Girard Bldg., Philadelphia, 13⅜ cts.; Houston Rickards Dredging Co., 714 Girard Bldg., Philadelphia, 15 cts.

$79, (5) $16,986, (6) 65 days, (7) not stated; Frank C. Hughes, Glendive, Mont., (1) $249, (2) $257, (3) $60, (4) $70, (5) $17,840, (6) 110 days, (7) not stated; W. H. Crumb & Co.,

Bids received at Glendive, Mont., June 1, 1905, by U. S. Reclamation Service. H. N. S[illegible], Supervising Engineer, for Constructing Irrigation Canals and Structures for the Fort B[illegible] Project.

Item.	Quantity.	(1)	(2)	(3)	(4)
Excavation, Class 1	3,612,000 cu. yds.	.14	.19	.20	.21½
" " 2	6,500 "	.28	.30	.45	.75
" " 3	6,000 "	.45	.35	.45	.75
" " 4	3,530 "	.97	.75	1.40	6.25
Wet excavation, headworks	3,400 "	1.25	1.25	2.00	1.00
" canal	20,000 "	.30	.65	1.75	.70
Overhaul, per 100 ft.	393,000 "	.01⅛	.01	.01	.03
Refilling	7,000 "	.25	.50	.40	.20
Puddling	6,000 "	.50	.65	2.00	.25
Riprap	18,210 "	2.00	2.25	2.50	4.65
Concrete, Class 1	6,340 "	2.70	12.00	10.50	10.00
" " 2	5,210 "	2 55	6.50	8.50	8.00
Placing steel for Concrete Reinforcement	640,000 lbs.	.04	.00 7/10	.01¾	.01½
Placing gates, headworks	100,000 "	.07	.01¼	.02	.01
Piles, delivered	7,900 lin. ft.	.30	.22	.28	.18
" driven	7,500 "	.21	.20	.40	.20
Sheet piles, delivered	163,800 ft. B. M.	21.75	30.00	43.00	32.00
" " drain, Class A	5,000 lin. ft.	2.00	.15	.40	.10
" " " " B	26,090 "	1.00	.15	.60	.07
Lumber	54,000 ft. B. M.	22.25	35.00	45.00	32.00
Steel	39,800 lbs.	.06	.08½	.10	.04
Cast iron	1,300 "	.05½	.07⅛	.09	.04
Terra-cotta pipe, 8-in.	110 lin. ft.	.45	.35	.50	.50
" " 24-in.	600 "	1.95	2.50	4.00	4.00
" " 30-in.	840 "	3.45	3.95	5.50	5.00
" " 36-in.	1,200 "	5.45	5.85	8.00	7.00
Totals		$691,859	$908,267	$1,016,188	$1,063,361

Chicago, Ill., (1) $264.50, (2) $264.50, (3) $50, (4) $50, (5) $18,615, (6) 120 days; (7) Kellogg Switchboard & Supply Co.'s, Stromberg-Carlson Telephone Mfg. Co.'s, or American Electric Telephone Co.'s telephones; Burrell Const. Co., Portland, Oregon, (1) $335, (2) $335, (3) $140, (4) $120, (5) $23,710, (6) Oct. 1, (7) Stromberg-Carlson Telephone Mfg. Co.'s, or Kellogg Switchboard & Supply Co.'s telephones.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

ELECTRIC CARS.—City of Mexico.—W. W. Wheatly, Gen. Mgr. of the Mexican Tramways, Limited, is preparing specifications for new cars that will be ordered from the United States soon. It is intended to order at least twenty cars.

BIDS RECEIVED AT PLAINFIELD, N. J., JUNE 5, 1905, BY THE COMMON COUNCIL, FOR ENLARGING THE SEWAGE DISPOSAL WORKS.

	9,500 cu. yds. Earth Excav.	Filling Material: 13,200 cu. yds. Stone.	Filling Material: 13,200 cu. yds. Slag.	Filling Material: 13,200 cu. yds. Clinker.	2,750 cu. yds. Concrete.	Frame Roof Over Septic Tanks.	Concrete Roof Over Septic Tanks.	2 Gate Houses, each.	Sewer and Distributing Pipes: 1,250 ft. 15-in.	Sewer and Distributing Pipes: 1,146 ft. 12-in.	Sewer and Distributing Pipes: 176 ft. 10-in.	Sewer and Distributing Pipes: 176 ft. 8-in.	Sewer and Distributing Pipes: 32 ft. 10-in. Split Pipe.	11,320 ft. 5-in. Horseshoe Tile.	8 12 in. Sluice Gates.	3 8-in. Gate Valves.	2 12-in. Gate Valves.	300 cu. ft. Blue Stone.	17 Wooden Gates and Guides.	1,400 lbs. Cast Iron.	300 sq. yd. Clean-Plaster Old Walls.	1 Operator's Office Building.	6,600 cu. yds. Cleaning Stone in Contact Beds.	Cost of Branches, Bends & Increasers (100% additional to price of straight pipe.)	Totals.
(1)	.25	$1.50	$1.50	$1.50	$5.50	$3,850	$9,000	$200	.70	.60	.50	.40	.40	.08	$35.00	$25.00	$30.00	$2.00	$8.00	.04	.20	$2,500	.60	$130.80	$52,047
(2)	.24	1.87	1.83	1.60	5.15	3,800	6,000	140	.60	.48	.37	.29	.55	.07	32.00	20.00	32.00	1.20	1.50	.03	.17	2,500	.34	105.12	52,612
(3)	.18	2.00	1.80	1.80	5.40	3,070	15,000	157	.85	.55	.45	.31	.35	.04	37.00	21.50	34.00	3.00	4.00	.06	.25	2,557	.45	134.28	53,213
(4)	.04	1.60	1.60	1.60	7.50	600	1,600	150	.60	.54	.52	.52	.25	.15	30.00	17.50	30.00	.25	5.50	.04	.15	2,400	.60	126.24	53,391
(5)	.33	1.80	1.85	....	5.70	4,970	8,470	110	.74	.61	.39	.28	.39	.07	34.00	37.00	53.00	1.60	1.50	.06½	.25	3,000	.45	123.60	55,581
(6)	.25	1.94	1.94	1.94	5.90	2 860	5,987	137	.58	.44	.34	.25	.75	.05	38.00	21.00	37.00	3.50	2.00	.05	.29	2,500	.38	98.16	56,054
(7)	.30	1.90	1.90	1.90	5.75	4,000	6,000	250	.60	.50	.40	.35	.35	.05	40.00	25.00	40.00	1.50	5.00	.04	.50	2,600	.50	110.40	57,501
(8)	.32	1.66	1.66	....	6.75	4,560	6,560	125	.55	.45	.34	.25	.50	.08	40.00	27.00	40.00	3.10	2.00	.06	.40	2,500	.42	96.12	57,570
(9)	.38	1.85	1.85	....	5.85	4,246	7,800	170	.55	.45	.33	.29	.26	.07	40.00	27.00	39.00	3.00	2.25	.07	.33	2,470	.45	97.56	57,968
(10)	.38	1.63	1.53	1.53	6.48	5,060	6,367	125	.70	.59	.51	.42	.43	.05¼	37.00	21.00	37.00	2.25	4.50	.04¼	.30	2,325	.90	131.76	58,993
(11)	.28	2.20	1.90	....	6.20	4,000	6,000	150	.70	.60	.50	.40	.60	.04	40.00	25.00	40.00	3.20	5.00	.03½	.30	2,800	.75	130.80	60,823
(12)	.36	2.19	....	....	7.10	3,750	......	125	.75	.60	.50	.40	.25	.04	40.00	25.00	40.00	.90	10.00	.05	.10	2,325	....	135.00	61,572
(13)	.42	1.90	1.84	1.84	7.93	1,600	5,600	175	.75	.55	.37	.30	.25	.05	42.50	26.00	42.50	2.10	1.00	.05	.40	2,585	.53	121.56	61,840
(14)	.30	2.04	2.04	2.04	6.35	4,560	5,458	137	.50	.40	.32	.25	.32	.03	37.50	22.00	37.50	2.30	5.00	.04	.20	2,568	.74	88.56	62,482
(15)	.33	1.95	....	....	7.50	4,991	6,430	140	.80	.60	.45	.30	.90	.07	45.00	27.00	45.00	2.50	1.50	.05	.50	2,400	.40	132.00	64,110
(16)	.32	2.45	1.80	....	7.85	4.500	12,000	350	.72	.65	.58	.50	.75	.08	50.00	25.00	40.00	1.75	6.00	.04	.20	2,500	.73	143.52	65,112
(17)	.34	1.95	1.85	1.79	7.30	5,709	7,337	130	.69	.59	.49	.42	.37	.04¼	40.00	25.00	40.00	2.60	5.00	.05	.25	2,450	.86	129.96	65,655
(18)	.40	1.92	1.92	2.00	8.25	3,800	6,700	125	1.00	.90	.80	.70	.80	.12	30.00	17.50	17.50	3.00	2.50	.05	.75	2,500	.45	199.20	67,045
(19)	.35	1.90	1.90	....	7.50	4.200	5,000	150	.65	.52	.40	.30	.30	.05	33.00	20 00	33.00	2,00	10.00	.05	.50	2,500	1.00	113.16	66,230
(20)	.309	2.27½	1.89½	....	8.25	3,980	5,499	200	1.50	.90	.75	.50	.40	.048	44.00	24.00	44.00	2.50	3.00	.04	.39	2,600	1.25	229.20	71,265

*DAM AND SLUICEWAYS.—Los Angeles, Cal.—Following bids were received June 5 by J. B. Lippincott, Supervising Engr. U. S. Reclamation Service, for constructing Laguna Dam and sluiceways on Yuma Project; bids for this work were opened March 15, and the itemized bids were given under Contract Prices in our April 6 issue; the work, however, was ordered readvertised: (1) J. G. White & Co., 43 Exchange Pl., New York; (2) Burrell Construction Co., Oakland, Cal.; (3) P. McDonnell, Duluth, Minn.; (4) City Street Improvement Co., 512 Mills Bldg., San Francisco, Cal.; (5) Cotton Bros. & Co., Oakland, Cal.; (6) R. W. Faris, Faris-Kesl Contracting Co., Boise, Idaho; (7) Pacific Construction Co., San Francisco, Cal.; (8) N. S. Sherman Machinery Co., Oklahoma City, Okla.

*BRICK PAVING.—Freeport, Ill.—Bids were received June 3 by Board Local Improvements for paving Liberty St. with brick, the contract being let to M. FORD, Cedar Rapids, Ia., for $36,342. The street is to be paved with Purington block for a length of 5,000 ft., and a width of 18 ft. to 42 ft. Foundation is to consist of rolled stone, 6 ins. thick. The itemized bid of successful contractor was as follows: 15,390 cu. yds. earth excavation, 22 cts.; 21,334 sq. yds. paving, $1.33; 11,460 ft. curb and gutter, 37 cts.; 300 ft. 12-in. sewer, 50 cts.; 12 intakes, $16. G. W. Graham, Cy. Engr.

*TELEPHONE LINE.—Glendive, Mont.—Following bids were received June 1 by U. S. Reclamation Service for construction of telephone line in connection with Fort Buford Project; (1) bid for installing pole line and

STEEL SHED.—New Orleans, La.—Bids were received May 30 by the Port Commissioners, J. F. Coleman, Engr., for erection of steel shed No. 2, the contract being let to the BEDELL IRON & STEEL CO., New Orleans, La., at the following bid: 234,000 lbs. steel, 3.3 cts.; 81 squares galvanized corrugated iron, $5; 401 ft. 8-in. half round galvanized gutter, 24 cts.; 401 ft. 10-in. half round galvanized gutter, 32 cts.; 190 ft. 4-in. galvanized down spouts, 12 cts.; 1,200 lbs. cast iron, 2.5 cts.; total, $8,404.

*DREDGING.—Boston, Mass.—Following bids were received June 12 by Col. W. S. Stanton, U. S. Engrs., for dredging in Lynn Harbor, (1) bid for 646,000 cu. yds. dredging, (2) bid for removing boulders, weighing over three tons each: J. S. Packard Dredging Co., Providence, R. I., (1) $0.219, (2) $20; Bay State Dredging Co., Boston, Mass., (1) $0.2095, (2) $5; Morris & Cumings Dredging Co., New York, (1) $0.23, (2) $16.

MINING MACHINERY.—Sonora.—It is reported that the Gold Queen Mining Co., which operates the mines near Bacoachi, District of Arizpe, Sonora, will soon erect a mill.

FACTORY.—Zacatecas.—It is announced that a company has been formed for the purpose of establishing a factory at Zacatecas to cost $150,000, to manufacture rubber out of the guayule plant.

CONCENTRATING PLANT.—Guanacevi, Durango.—J. A. Soram, of Boston, is preparing to erect a concentrating plant, of a capacity of 250 tons, at Guanacevi, Durango, to work the ores from his Neuva Australia, Soto and other mines in the district.

RAILWAY.—Sonora.—F. A. McFarland, Ch. Engr. of the Cananea, Rio Yaqui & Pacific Ry. is locating the new lines to be built in the State of Sonora under the terms of the concession recently granted by the Government. It is expected active construction will commence in a few weeks.

MINING TRAMWAYS.—W. S. Dillon, General Mgr. of the American Mining and Development Co., city of Mexico, is contemplating building tramways to convey [illegible] from the mines of the company to the [illegible]. The length of the lines proposed to be built will aggregate ten miles.

MINING MACHINERY.—Sonora.—The Fres Naciones Gold Mining Co., which operates in the Caliche district of Sonora, will erect a

Bids received at Los Angeles, Cal., June 5, 1905, by J. B. Lippincott, Supervising Engineer U. S. Reclamation Service, for Constructing Laguna Dam and Sluiceways on Yuma Project.

Items.	Quantity.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Excavation, Class 1	305,000 cu. yds.	$1.30	$1.20	$1.30	$1.23	$1.05	$1.25	$1.05	$1.40
Excavation, Class 2	282,000 "	.30	.60	.23	.38	.63	.50	.30	.40
Placing rock in dam	305,000 "	.35	.09	.50	.40¼	.28	.40	.70	.60
Laying pavement	80,000 sq. yds.	1.00	.90	1.00	1.00	1.12	1.00	1.50	2.00
Concrete	27,150 cu. yds.	4.00	5.00	4.00	4.65	5.50	4.00	4.00	4.45
Furnishing and driving of sheet piling	53,000 lin. ft.	.40	.55	.40	.32 3/16	.48	.55	.37	.50
Totals		$797,650	$799,550	$823,660	$829,519	$847,675	$862,000	$866,560	$1,030,117

20-stamp mill. The mill will be located on the Santo Domingo River, and will be connected with the mine by an aerial tramway. A. B. Oliver is Consulting Engr. to the company; C. H. Phillips, Mgr., and A. W. Morris, Supt.

BRIDGE.—Nuevo Laredo.—It is announced that the Laredo International Bridge Co., which owns the international bridge across the Rio Grande River, connecting Nuevo Laredo, Mexico, with Laredo, Tex., will soon commence the work of rebuilding the structure. It was destroyed by a tornado recently.

RUBBER FACTORY.—Jimulco, State of Coahuila.—It is announced that La Anglo-Mexicana, S. A., the corporation which operates a large guayule rubber factory at Jimulco, will soon begin the erection of two more rubber factories. One of the new plants will be located at San Luis Potosi and the other at Saltillo.

CEMENT PLANT.—Dublan, State of Hidalgo.—The Compania Mexicana de Cemento Portland, of Dublan, State of Hidalgo, will soon enlarge the capacity of its plant. The plant now has an output of about 500 tons of cement a month, and this is found to be unequal to the demand. Leandro Payro is Gen. Mgr. of the company.

SEWER SYSTEMS.—City of Mexico.—It is announced that new sewer systems will be constructed in the suburbs of Coyoacan, Mixcoac and San Angel, all thriving towns situated adjacent to the City of Mexico. These public improvements will be carried out under the direction of the Board of Public Works of the Federal District. A complete sewer system is now being constructed in the suburb of Tacubaya.

SEWERS, ETC. — Campeche.—Extensive public works, involving the expenditure of a large amount of money, are to be constructed here. They include the construction of modern and complete sewer and drainage systems and the laying of about 16,000 sq. meters of street pavement. The representatives of a number of American contracting firms have recently visited Campeche with the view of investigating conditions so as to bid on the proposed work, it is said.

HYDRO-ELECTRIC PLANT.—Chihuahua.—William C. Green, represented by Thomas McManus, has obtained a concession from the Government to divert 10,000 litres of water, per second, from the Aros River, in the State of Chihuahua, for motive power. The surveys for the works and transmission lines must commence within six months from May 11th last, the date of the concession, and the plans be submitted within one year, construction must be commenced within two years, and completed within seven years.

ELECTRIC RAILWAY.—Jalisco.—Arrangements are being made for the transfer of the concession recently secured by M. C. Miller, of Guadalajara, for the construction of an electric railway from Guadalajara to the Pacific port of Chamela, to the Jalisco Rapid Transit Co. Application for a charter for the company, which will be capitalized at $15,000,000, gold, will be made immediately to the Legislature of the State of South Dakota. It is hoped to commence active construction soon after the termination of the rainy season.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

BRIDGE.—Russia.—Town Council of Warsaw has called upon French engineers to draw up projects for the construction of a bridge across the Vistula, and for the installation of electrical works upon a large scale.

ELECTRIC TRAMWAY.—France.—The Le Central Electrique du Nord, with a capital of $1,200,000, has been formed in Brussels for the purpose of building an electric tramway between the cities of Lille, Roubaix and Tourcoing, and branch lines, a total length of 37½ miles.

TELEPHONE SYSTEM. — Russia. — The Russian Posts and Telegraph Department is studying the question of installing a system of telephones between St. Petersburg and all the chief towns of European Russia. The installation of the projected system would take six years to carry out.

HARBOR.—Russia.—The Chief Board of Commercial Harbors and Mercantile Shipping of the Russian Empire has decided to build a large central harbor for the entire coastline of the Caucasus on the eastern shore of the Black Sea. The new port will be built at Tuapse, 70 miles from Novorossiisk.

ELECTRIC ENERGY.—Finland.—The Chief Board of Land and Waterways in Finland is about to appoint a commission to work out the question of installing electric energy for use as a motor power on the Finnish State Railways, the energy to be derived from the waterfalls of the country.

ELECTRICAL EXTENSIONS.—England. — The Bradford Electricity Committee have approved a report by Mr. A. S. Blackman, the electrical engineer, on extensions of mains, estimated to cost $187,500. The engineer advises that permission to borrow $300,000 be obtained to meet the cost of the mains extensions that may be necessary from time to time.

POWER PLANTS.—Italy.—The Prefect of Bergamo has granted Ambrogio Binda & Co., of Milan, an appropriation of water from the River Bembo, in the commune of Osio Sopra, for the production of power for industrial purposes. Prefect of Genoa has likewise granted Signor Boris Luigi a similar appropriation from the Evro waterfall, in the commune of Pontivrea.

PUBLIC IMPROVEMENTS.—Europe.—The following cities are now issuing bonds to pay for contemplated public improvements, among which are sewerage works, electric plants, etc.: Belgrade, Servia, $2,000,000; Baden-Baden, Germany, $933,000; Giessen, Germany, $814,000; Mulhausen, Germany, $814,000; Regensburg, Germany, $476,000; Offenbach, Germany, $1,190,000; The Hague, Netherlands, $1,200,000.

RAILWAY.—German Kameroon.—A company has received a concession to construct a railroad from Duala to the Mananguba Mountains, in the German colony of Kameroon. The capital stock is to be $4,046,000, of which the German Government will guarantee 3% income annually on an amount of $2,618,000. German contractors and supplies will have the preference if the prices are not higher than those of foreigners. The road is to be narrow gage.

HARBOR WORKS.—Port Colony.—A bill to provide for the raising of a loan of about $721,500 for the purpose of harbor works at Port Elizabeth, East London and Mossel Bay has been published. Of this sum $520,500 is proposed to be spent at Port Elizabeth, including $250,500 for tugs and lighters, $47,500 for warehouses and sheds, and $14,000 for patent slip (additional). The intended expenditure at Mossel Bay includes $27,000 for a new iron jetty.

WHARF, SEWERS, ETC.—Ecuador.—A correspondent in Guayaquil writes us that the construction of a large iron wharf is projected at that city. The concession is to be granted at the next session of Congress. The work will cost about $1,000,000, and it is said that the company has already been formed in the United States. The sewering of the city at a cost of about $2,000,000, and in connection with this the construction of pavements at a cost of $1,000,000 to $2,000,000, are projected. Several projects for the sewer system have been worked out, but no definite decision has been reached. The Sewer System Commission at present has no funds for the work, but it is hoped that the next Congress, which meets in August, with Lizardo Garcia, the new president of the republic, will vote an appropriation for installing the system. It is also proposed to erect markets, a municipal building, a post office, and a theater; but for the present all this work is postponed for want of appropriations.

INDUSTRIAL NOTES.

THE DAYTON PNEUMATIC TOOL CO., of Dayton, Ohio, has opened an office in San Francisco at 421 Market St., which will be in charge of Mr. Henry Engels.

THE ABNER DOBLE CO., of San Francisco, states that its consulting engineer, Mr. R. McF. Doble, is in Mexico investigating several hydro-electric long-distance power projects.

THE BLOCK-POLLAK IRON CO., of Chicago, announces that it has established a branch office at 1610 Chemical Bldg., St. Louis, Mo. The Chicago office has been changed from the Marquette Bldg. to the 1st National Bank Bldg.

THE CHAMPION COPPER CO., Chicago, has ordered from Allis-Chalmers Co. a vertical cross compound Reynolds-Corliss condensing engine of 340 HP. for direct connection to an alternating current generator for its power-house at Painesdale, Mich.

THE MARYLAND COAL CO. has ordered a steel frame coal trestle, 272 ft. long and 25 ft. wide, with steel tipple house 99 ft. × 25 ft., for their mines at Wendel, Taylor County, W. Va. The contract has been placed with Wm. B. Scaife & Sons Co., Pittsburg.

THE NORTHWESTERN ENGINEERING CO., Lyceum Building, Duluth, Minn., announces that it will undertake general engineering work (civil, mechanical, electrical and mining). It will act as consulting engineer or superintendent, make examinations of plants to determine their efficiency, make estimates and bids for installing machinery, and also design labor-saving machinery.

THE EXETER MACHINE WORKS, of Pittston, Pa., and New York, have lately closed up contracts for the following concerns for complete coal and ash handling plants: Hudson River Electric Power Co., Utica; United Electric Light Co., Springfield, Mass.; Tennessee Copper Co., Copperhill, Tenn. The above installations include the Le Grand patent pivoted bucket conveyor, belt conveyors and new designs of suspended flight conveyors.

THE DODGE COAL STORAGE CO., Nicetown, Philadelphia, announces that it designs and builds machinery for storing anthracite and bituminous coal by the standard "Dodge" system, bridge tramways, revolving locomotive cranes, etc.; also designs, equips and builds complete plants for handling coke, ore, and similar products. The United Telpherage Department designs and installs the electrically operated (trolley) system of conveying for all classes of industrial requirement; wharves, warehouses, boiler houses, gas, pulp and paper, and textile plants, sugar refineries, blast furnaces, etc.

THE NEW CASTLE PORTLAND CEMENT Co., New Castle, Pa., has placed an order with Allis-Chalmers Co., of Milwaukee, for four rotary kilns, each 100 ft. in length and 7½ ft. in diameter at the large and 6½ ft. at the small end. The tendency of late in the cement business has been to lengthen the kilns. A few years ago kilns measuring 60 ft. were practically the standard, but kilns which are now being erected range from 80 to 125 ft. in length, 100 ft. being about the standard. In addition to the kilns, Allis-Chalmers Co. will furnish a crushing plant consisting of one No. 6 "K" Gates Rock and Ore Breaker, two No. 4 Gates Breakers, and one No. 6 elevator. The operation of these is as follows: The No. 6 breaker receives the limestone as it comes from the quarry and does the preliminary crushing. The discharged product is divided and sent to the two No. 4 breakers, which prepare it for the grinding.

MANNING, MAXWELL & MOORE, INC., was incorporated May 31, 1905, and composed of Manning, Maxwell & Moore and its allied manufacturing companies, the Shaw Electric Crane Co., the Ascheroft Mfg. Co., the Consolidated Safety Valve Co., the Hayden & Derby Mfg. Co., the Hancock Inspirator Co., and the United Injector Co. The corporation was formed under the laws of the State of New Jersey, having a paid up capital of $5,000,000. The officers of the new concern are: C. A. Moore, Pres.; John N. Derby, Vice-Pres.; Martin Luscomb, Vice-Pres.; Stephen B. Aller, Vice-Pres.; Colby M. Chester, Jr., Treas.; J. H. Blue, Asst. Treas.; Charles Arthur Moore, Jr., Secy., and Merle S. Clayton, Asst. Secy. Business will be carried on at the home office of Manning, Maxwell & Moore, at 85, 87 and 89 Liberty, St., New York, and through their branch offices in Boston, Philadelphia, Chicago, Cleveland, Pittsburgh and St. Louis. The firm of Manning, Maxwell & Moore was established in 1881, composed of H. S. Manning, E. I. Maxwell, and C. A. Moore. Mr. Maxwell died about 10 years ago, and Mr. Moore recently purchased Mr. Manning's entire interest in the business. Of the several manufacturing companies involved in this consolidation, the Shaw Electric Crane Co., with works at Muskegon, Mich., are the manufacturers of the Shaw electric traveling crane. The Ashcroft Mfg. Co., whose works are located at Bridgeport, Conn., and whose business was established in 1851, are manufacturers of steam gages. In addition to steam and pressure gages, they manufacture the Tabor steam engine indicator, the Edson recording gage and an extensive line of pipe fitters' tools. The Consolidated Safety Valve Co., whose works are also located in Bridgeport are makers of the "Consolidated" safety valve, which is made under the original Richardson patents. The factory of the Hancock Inspirator Co. is located in Boston. This business, established in 1876, consists of the manufacture of the Hancock inspirators for the feeding of locomotive, marine, stationary and portable boilers. This company also manufacture Hancock, globe, angle, 60-degree and cross valves, and are making a complete line of locomotive trimmings. The business of the Hayden & Derby Mfg. Co. was established in 1888, and they have a factory in Boston devoted to the manufacture of "Metropolitan" injectors.

TRADE PUBLICATIONS.

SAND-LIME BRICKS.—American Sand-Lime Brick Co., Great Northern Bulding, Chicago. Paper, oblong; 9¼ × 7¼ ins.; pp. 40; illustrated.

This pamphlet describes the manufacture of sand-lime bricks, explains their special advantages, and illustrates a number of brick-making plants which have been built by this company in various parts of the country.

DRINKING FOUNTAINS.—James B. Clow & Sons, Chicago, and New York. Paper; 9¼ × 12 ins.; pp. 24; illustrated.

This is a handsome illustrated catalogue and price-list of drinking fountains, horse troughs, etc., of ornamental design. Some are combined with electric light posts and others are to fit recesses in the walls of railway stations, hotels, etc., but the majority are large street fountains.

BOX CAR LOADER.—Duncan Foundry & Machine Works, Alton, Ill. Paper; 6 × 9 ins.; pp. 8; illustrated.

The Smith machine for loading box cars with coal, consists of a cradle on which the car stands and is tilted first to one end and then to the other, while the coal is discharged from a chute into the side door of the car. Some coal companies have installed these loaders at their mines.

ELECTRICAL APPLIANCES.—The Maver Engineering Co., Monadnock Block, Chicago. Paper; 3½ × 6¼ ins.; pp. 4; illustrated.

The Monoplex telephone for houses, offices, factories, etc., and for lines up to three miles in length, is briefly described; also voltmeters, telegraph apparatus for students, etc. A separate sheet describes a combination volt-ampere meter.

WATER WHEELS AND WATER POWER PLANTS.—The Pelton Water Wheel Co., 125 Main St., San Francisco, Cal. Paper; 6 × 9 ins.; pp. 108; illustrated.

The Pelton jet water wheel is described and illustrated, together with particulars of its special features and its application to various purposes, as for driving pumps, compressors, electric generators, rope transmission pulleys, etc. There are tabular lists of sizes, capacities and prices of wheels; also particulars of governors, measuring weirs, valves, steel pipe, nozzles, and other appurtenances. A number of plants operated by Pelton wheels are illustrated, and there are tables of flow of water in pipes, flumes and ditches.

REINFORCED CONCRETE.—St. Louis Expanded Metal Fireproofing Co., 606 Century Building, St. Louis, Mo. Paper; oblong; 7 × 5 ins.; pp. 167; illustrated.

This attractive pamphlet consists largely of line drawings and half-tone engravings of numerous reinforced concrete structures of the most varied character: Foundations, floors, buildings, retaining walls, bridges and culverts, sewers, water towers, dams and grain bins are included, as well as a concrete floor for a steel highway bridge. Several pages are also devoted to methods of computation; and tables for use in the design of floors, culverts, etc. All this, of course, relates to reinforcement with the Johnson corrugated steel bars.

CATCH-BASIN ACCESSORIES. — Hannagan Catch-Basin Co., Lawrence, Mass. Paper; 6 × 9 ins.; pp. 23; illustrated.

Anyone having to do with street and sewer construction and maintenance can hardly fail to be interested in this catalogue. The devices described are interesting in themselves and are described and illustrated with unusual skill. The devices appear to be brand new; at least many of them were patented as late as May 16, 1905, and patents are pending for the others. A catch-basin cover or sewer inlet that does not require cutting into the curbstone, a cement valve and a reinforced cement bar for a catch-basin trap, and various forms of iron traps for catch-basins are included.

PAINTING STRUCTURAL STEEL. — The Lowe Brothers Co., Dayton, O. Paper, 5⅜ × 8⅜ ins.; pp. 45.

The pamphlet opens with the following statement: "The theory that oil, or the binder, is the life of paint, that is, the thing that makes it wear, is misleading. . . We work upon the hypothesis that the solids are coefficient with the liquids in producing the best materials, and that the secret, if there be any, lies in the proper adjustment or determination of the amount and kind of each needed to secure a perfect product." The chemical and mechanical properties of paint are discussed, with methods of painting and cleaning and notes on the solid and liquid constituents for paints for covering metal.

THE EVOLUTION OF CAR COUPLINGS.—The McConway & Torley Co., Pittsburg, Pa. 9½ × 12 ins.

This handsome pamphlet, printed in French and English, was prepared for presentation to the delegates from abroad to the International Railway Congress. It gives a brief summary of the origin and development of the present type of M. C. B. coupler. The original patent for the Janney coupler was issued to C. H. Janney of Alexandria, Va., in 1873. In the following year a very much improved type was patented by Janney, and in 1879 he patented a still further improved coupler with contour lines which correspond almost exactly with the contour lines adopted by the M. C. B. Association as standard in 1903. The book is a credit to the enterprise of the firm issuing it and contains matter of such historical interest that it is well worth preservation.

GARBAGE AND REFUSE CREMATORY.—Sanitary Engineering Co., 237 Broadway, New York City. Paper; 8 × 11 ins.; pp. 4; illustrated.

A cast-iron shell, lined with fire brick, and provided with an upper or drying and a lower or burning grate is here shown. Each section of the burning grate is provided with a separate ash pit and clean-out door. The bars of the drying grates are of hollow cast iron, triangular, 7 ins. wide on a side, mounted 10½ ins. c. to c. Every other bar may be rotated from without the furnace, thus dumping the dried garbage on the burning grate. The hollow portions of the revolving bars are utilized to admit air to the furnace "for combustion," the air admission being controlled by doors. A small furnace built at Fort McKinley, Me., for the U. S. Army Post there, is illustrated in the circular.

PIPE COUPLINGS AND INSULATORS AGAINST ELECTROLYSIS.—S. R. Dresser, 44 Boylston St., Bradford, Pa. Paper; 4½ × 7 ins.; pp. 68; illustrated.

Tight pipe joints and protection against electrolysis are in demand to-day as never before. The Dresser couplings, sleeves, clamps, crosses, tees, ells, wall fasteners, casing heads, packers, and rubber plugs have been designed and perfected for use in oil and natural gas wells and pipe lines; but some of these specialties are being rapidly adopted by purveyors of manufactured gas and of water. The pipe couplings are adapted for use on plain or threadless wrought iron, and on both special and bell and spigot pipe. The joints are bolted, have rubber packings, and are designed to be obsolutely tight. The insulating joints are also applicable to a variety of pipe. A number of letters and reports relating to the use of these goods for ordinary and high pressure gas mains, including joints for insulation against electrolysis are quoted. Useful tables and other information close the catalogue.

WOOD PAVEMENTS.—U. S. Wood Preserving Co., 29 Broadway, New York City. Paper; 11 × 7½ ins.; pp. not given; illustrated.

Some explanatory notes and a list of cities, streets, bridges, shops, and the like where creo-resinate wood blocks are used are followed by a large number of well made half-tones showing many of the pavements mentioned in the list.

SUPPLIES FOR CONTRACTORS, BUILDERS AND RAILWAYS.—Walter A. Zelnicker Supply Co., St. Louis, Mo. Cloth; 6½ × 8¾ ins.; pp. 831.

It is impossible for us to enumerate the large number of supplies listed in this catalogue. The fact that the catalogue is bound in cloth, and contains more than 800 pages of illustrations and reading and tabular matter, suffices to indicate the great variety of machines, tools, and supplies handled by this company.

ELECTRICAL ORE SEPARATOR.—The Blake Mining & Milling Co., 1930 Curtis St., Denver, Colo. Paper; 3½ × 6¼ ins.; pp. 18; illustrated.

This pamphlet describes the Blake-Morscher electrostatic separating device, in which the powdered ore falls in a stream upon a metal roller charged with electricity and revolving at high speed. The non-conducting particles fall directly from the roller into a hopper, while particles of high conductivity are thrown aside into another hopper.

COMBINED GARBAGE CREMATORY AND WATER HEATER.—Cragin Garbage Crematory Co., 285 43d St., Chicago. Paper; 3 × 6 ins.; pp. 24; illustrated.

A so-called portable steel and a stationary brick set type of crematory and water heater are shown. The former is designed for 1 to 12 flats and the latter for 13 flats and upwards. It will be understood that the apparatus is also used in detached residences, hotels and hospitals. Numerous testimonials from architects and from users are given.

CONCRETE MIXING MACHINES.—Municipal Engineering & Contracting Co., 607 Railway Exchange, Chicago. Paper; 3½ × 6¼ ins.; pp. 24; illustrated.

This is a reprint of an article on "The Efficiency of Concrete Mixing Machines" in Engineering News of Aug. 27, 1903. With it is a description of the concrete mixing plant at Duluth harbor, taken from the report of the Chief of Engineers, U. S. A., and also some particulars of the company's Chicago cube concrete mixer.

VARIABLE SPEED MOTORS.—Electro Dynamic Co., Bayonne, N. J. Paper; 6 × 9 ins.; pp. 8; illustrated.

The "Interpole" variable speed motors here shown have small poles intermediate between the main field poles. Their purpose is to correct the armature reaction in such a way that no commutation difficulties are introduced by varying the speed. The interpole coils are series, while the main field coils are shunt. Variation of resistance in this shunt circuit is the means of controlling the speed.

ELECTRIC CAR HEATING.—Gold Car Heating Co., 17 Battery Pl., New York. Paper; 12 × 9 ins.; pp. 24; illustrated.

The resistance elements of the "Gold" electric heaters are helical wire coils wound over and supported by a crimped steel rod coated with insulating enamel. The construction permanently ensures against short-circuiting. A method of grouping is used in these heaters by which several strengths of heating may be obtained with the same equipment.

DRILL GRINDERS.—Worcester Polytechnic Institute, Worcester, Mass. Paper; 6 × 9 ins.; pp. 22; illustrated.

A number of points of superiority over other drill grinders is claimed for the machines built in the shops of the Worcester Polytechnic Institute for the general market. These points are explained in the pamphlet here noted, and then the several styles in which the grinders are built are separately shown and sizes, prices and code words given.

NAVAL COALING STATIONS.—Mead-Morrison Mfg. Co., Boston, New York and Chicago. Paper; 9 × 11 ins.; pp. 16; illustrated.

A number of excellent half-tone views show the company's coal handling plants installed at several of the naval coaling stations of the United States Government. Brief descriptions are given, and there are views also of the steam engines, Rawson grab buckets, and cable dump cars used in connection with these plants.

HOISTING MACHINERY.—Rawson & Morrison Mfg. Co., Cambridge, Mass. 6 × 9 ins.; pp. 136.

Steam and electric hoists of different types and sizes are fully illustrated, accompanied by tables giving horse-power, sizes, load, capacities, etc. An interesting machine is a double-drum electric hoist mounted on a derrick mast. This machine is equipped with a patent derrick swinging winch, the bull wheel being stationary while the derrick and platform are revolved. For use in quarries and for contract work generally this device appears to be especially meritorious. Bull wheels for ordinary steam-driven derricks are furnished separately, if desired.

WELLS, WELL PUMPS AND SUPPLIES.—Cook Well Co., 15 South Fourth St., St. Louis, Mo. Paper; 4½ × 7¾ ins.; pp. 47; illustrated.

The Cook system of tube wells, as adopted for the supply of cities and industrial plants, is described, including horizontal wells driven in water-bearing sand and gravel. The company's power pumps, strainers and working barrels are described, together with a varied assortment of appliances and supplies for well work. Lists of dimensions and prices are given in each case.

VENTILATORS, PUMPS VALVES AND CONDENSERS.—A number of separate leaflets treating of these subjects. Schutte & Koerting Co., Philadelphia.

The most interesting of these leaflets is the one showing the water spray ventilators for mines. The efficiency is claimed to be as great as that obtained from fans. The water spray also cools the air. An example is mentioned of the use of this device in an underground engine room, for reducing the temperature from 96° to 76° F.

GOLD DREDGING MACHINERY.—The Risdon Iron Works, San Francisco, Cal. Paper; 7 × 10¼ ins.; pp. 50; illustrated.

This catalogue relates to ladder dredges for excavating gold-bearing gravels, and equipped with gold-saving apparatus and belt conveyors for discharging the gravel tailings. Several of these dredges are illustrated, together with their engines, screens and other machinery equipment, and records of their performance. The Evans hydraulic elevator, in which gravel is forced up an inclined pipe by a powerful jet of water, is also included.

STEAM TURBINES.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; pp. 25; illustrated.

The latest annual report of the General Electric Company says that no fewer than 289 Curtis turbines, of capacity from 450,000 to 500,000 KW., were sold prior to Feb. 1, 1905. This is especially surprising in view of the fact that the first machine was put into commercial service in the power house of the General Electric Company at Schenectady on Oct. 1, 1902, thirty months before. The pamphlet here noted shows some views of typical installations of Curtis steam turbines driving electric generators, which appears to be their sole field of service.

SWITCHSTANDS.—Morden Frog & Crossing Works, Chicago. Paper; 5¼ × 8½ ins.; pp. 28; illustrated.

The "Security," "Universal" and other patterns are described and illustrated, including dwarf, ground-throw and three-way switchstands. There is also the "Buckeye" semaphore signal as a substitute for the usual target at switches. The "Security" and "Universal" switchstands have facing-point locks and are designed to be operated in connection with wire-connected or electric distant signals. The former can also be fitted with an electric device by means of which the operator at the station can prevent its being opened.

ENGINE STOP AND SPEED LIMIT SYSTEM.—Consolidated Engine-Stop Co., 100 Broadway, New York. 4 × 9¼ ins.; pp. 23.

The Monarch System of automatically regulating the operation of an engine or stopping it by means of tell-tales on rope drives, or of stopping the engine if an accident occurs in a distant part of the plant, or in case an employe is caught in the machinery, or there is a break in the belting, or in case a cylinder head blows out, is fully described in this catalogue. It is a mechanical device operated by electricity and can be applied to any engine without regard to make, size or speed. A long list of installations of this machine is given.

PURIFIED CISTERN WATER UNDER PRESSURE.—The American Pure Water Supply Co., Ashtabula, O. Paper; 4 × 9 ins.; pp. 14; illustrated.

An automatic device placed on the rain-water leader is set to waste the first flushings of the roof after the beginning of a rain. A valve then closes and water is delivered to a cistern, provided with an automatic clean-out for removing sediment and special tile filters for clarifying the water. The cistern is buried in the earth, so as to keep the water cool. An air compressor, air tanks and proper fittings and pipes serve to deliver the water to any part of the building supplied. It is claimed that stagnation of the cistern water and other improvements in its quality is secured through aeration by means of air brought in through the supply pipe from the roof and through an air pipe connected with space enclosed by the filter tiles.

The present catalogue is a great improvement over its predecessor, in that this one contains intelligible drawings and text descriptive of the apparatus.

FIBER CONDUITS FOR ELECTRIC WIRES.—American Conduit Co., 1005 Manhattan Building, Chicago. Paper; 6¼ × 7¾ ins.; pp. 32; illustrated.

In this attractive pamphlet, the advantages of bituminized fiber conduit for underground electrical work are set forth, with particulars of its use, and notes of electrolytic tests made.

ELECTRICAL MACHINERY.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; illustrated.

Recently issued serial bulletins of this company include: No. 4403, describing an adjustable shunt field coil for recording wattmeters, for adjusting the meter registration after friction losses have become constant. No. 4404 describes moderate-speed direct current motors in sizes from 20 to 200 HP. on circuits up to 500 volts. No. 4405 describes starting devices and their auxiliaries, for use in connection with alternating current motors. No. 4406 shows induction motors of both the squirrel-cage and the wound armature types. A special pamphlet entitled "Motor Generator Sets" gives views and descriptions of numerous installations of motor generators in lighting and in electric railway service, as converters and as frequency changers.

WATER LEVEL TRANSMITTER, INDICATOR AND RECORDER.—The India Rubber, Gutta Percha & Telegraph Works Co., Ltd., Silvertown, London, E., England. Paper; 8 × 10 ins.; illustrated.

A wooden float working in a vertical pipe and connected by a sprocket chain with a wheel and a counterweight beyond the wheel moves the wheel for each unit of rise or fall of the water. The unit may be of any length desired. A single electric wire leads to an indicating or an indicating and recording apparatus. By means of a battery and positive and negative currents the direction of the change of level is indicated at the receiving station. The indicator consists of one or two hands, as desired, and a dial and the recorder is the usual pen, chart, and revolving drum.

STIRLING, A BOOK ON STEAM.—The Stirling Company, Trinity Bldg., New York, N. Y. Cloth; 8 × 10½ ins.; pp. 248; illustrated.

This book is more or less wholly a technical treatise or text, although it is published in the interests of the Stirling water-tube boiler and gives much space to describing the construction and merits of that boiler while no other form or make of boiler is discussed. Roughly, about half the book is specifically Stirling, while half is free from direct reference to any particular boiler. The text, which is quite fully illustrated with views and diagrams, treats of combustion, steam generation, effect of moisture, superheating, chimneys, calorimetry, fuels, testing procedure, etc., in about the same manner and extent as an independent text on steam boilers. The Stirling boiler is fully described in the first part, and later the Stirling superheater and the Stirling bagasse-furnace are described. The Am. Soc. M. E. rules for conducting boiler tests are reprinted in full.

For other Proposal Advertisements see pages 35, 36, 37, 38, 39, 40, 41 of Advertisements and Construction News page 234.

COUNTY BRIDGES.

County Controller's Office,
Reading, Pa., June 1, 1905.

Sealed proposals will be received at this office up to 10 a. m., Friday, June 23, 1905, for building the following bridge across the Saucony Creek, in Maxatawny Township, known as Deturk's bridge, namely: 1st, for a steel girder superstructure with a concrete roadway; also, 2d, for a truss superstructure with a concrete roadway, masonry work, as per plans and specifications on file in the office of the County Commissioners at Reading, Pa. Ninety days from the approval of the contract by the Court will be allowed for the completion of the bridge. All bids must be based on this provision as to time. Bids must be accompanied by certified checks equal to 10% of the aggregate amount of the bid. The right is reserved to waive all defects, to reject any or all bids or parts of bids.

HORACE F. LIVINGOOD,
24-1t County Controller.

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., June 12, 1905.—Sealed proposals for dredging in Portland Harbor, Me., will be received here until 12 M., July 12, 1905, and then publicly opened. Information furnished on application. W. M. BLACK, Maj., Engrs. 24-4t

SEWER CON[illegible]RUCTION.

City [illegible]idgeport, Conn.

Proposals will be r[illegible] by the undersigned, Director of Pu[illegible]orks of said City of Bridgeport, until S[illegible] July 1st, 1905, at 12 o'clock noon, f[illegible] construction of about 1,000 feet of 48-[illegible]und brick sewer in William Street, in [illegible]ty.

Profile of same may [illegible] at, and copies of specifications obtain[illegible]m the office of William W. Starr, City [illegible]yor.

A bond of $2,000, wit[illegible] sureties, will be required for the fa[illegible] performance of the work. A certified [illegible]or $1,000 must accompany each propo[illegible]

The Director reserve[illegible]ight to reject any or all proposals.

PATRICK [illegible]NNELLY,
Director [illegible] Public Works.
Bridgeport, Conn. 24-2t

NOTICE TO PAVING CONTRACTORS.

[illegible]mlenton, Pa.

Sealed proposals for [illegible]ucting about 9,275 square yards of brick [illegible] asphalt block paving, on Main Street, [illegible] Borough of Emlenton, Pa., will be [illegible]ved by the Borough Secretary, at his [illegible]e, till noon, July 5, 1905.

All proposals must be on [illegible]rms furnished by the Borough, and must be accompanied by a certified check for $50[illegible], payable to the Borough Treasurer. Specifications and forms of proposal may be obtained from the Borough Secretary, and plans may be seen at his office.

Each bidder is requested to state what paving he has done, and to give reference as to his business standing.

The Council reserves the right to reject any or all bids, if they deem it to the interest of the Borough so to do.

F. H. KREAR, Borough Secretary,
Cosser Building, Emlenton, Pa.
H. J. McKINLEY, Engineer, Harrisville, Pa.
June 15, 1905. 24-1t

GENERAL DEPOT OF THE QUARTERMASTER'S DEPARTMENT, Washington, D. C., June 13, 1905.—Sealed proposals, in triplicate, will be received at this office until 2 o'clock, p. m., Saturday, June 24, 1905, and then opened, for Constructing, Plumbing, Gas Piping, Heating and Electric Wiring a building for Bachelor Officers' Quarters at Fort Myer, Virginia. Plans and specifications can be seen at this office. Blank forms for making proposals will be furnished intending bidders upon application to this office. Envelopes containing proposals must be marked "Proposals for Constructing, Plumbing, etc., Building," and addressed to Captain A. W. BUTT, Qr.-Mr., U. S. Army. 24-1t

PROPOSALS FOR MISCELLANEOUS SUPPLIES.—Office, Isthmian Canal Commission, Washington, D. C., June 14, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., July 10, 1905, at which time they will be opened in public, for furnishing Sanitary Fixtures and Roughing Material, Water Pipe and Pipe Fittings, Lead Pipe, Solder, Pig Lead, Oakum, Bolts, Washers, Spikes, Nails, Creosote Oil, Wire Rope, Manila Rope, Cotton Waste, Pitch, Cotton Duck, Rubber Sleeves, Tackle Blocks, Timber Dolleys, Carrying Hooks, Saws, Wheel Barrows, Shovels, Switch Stands, Hydraulic Jacks, Jack Screws, Pile Driver Hammers, etc. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club., Mobile, Ala. D. W. ROSS, General Purchasing Officer. 24-4t

PROPOSALS FOR VALVES, STEAM WHISTLES, WATER GAGES, STEAM GAGES, GAGE COCKS, WATER COLUMNS, ENGINE APPLIANCES, PIPE AND PIPE FITTINGS, RATCHET DRILLS, WRENCHES, STOCKS AND DIES, TAPS, PIPE VISES, HACK SAWS, MACHINE BOLTS, WASHERS, NUTS, STEEL BRUSHES, AXES, HAMMERS, HAMMER AND AXE HANDLES, EMERY CLOTH, HINGES, OILERS, ETC. Office Isthmian Canal Commission, Washington, D. C., June 16, 1905.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., July 17, 1905, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., N. Y. City, or Asst. Purchasing Agent, at Custom House, New Orleans, La., and blanks may be had at Chamber of Commerce, San Francisco, Cal., and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 24-4t

SITUATIONS OPEN

WANTED.—Man with experience [illegible] technical training to take position as manager, buyer and correspondent for our business, consisting of civil engineering, surveying, architects' and draftsmen's materials and supplies. Address A. S. ALOE CO., No. 513 Olive St., St. Louis, Mo. 24-2t